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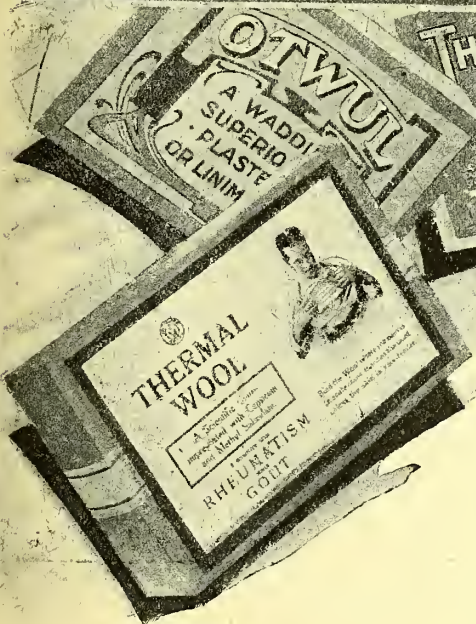
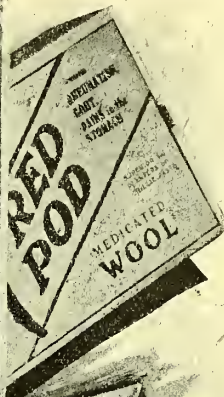
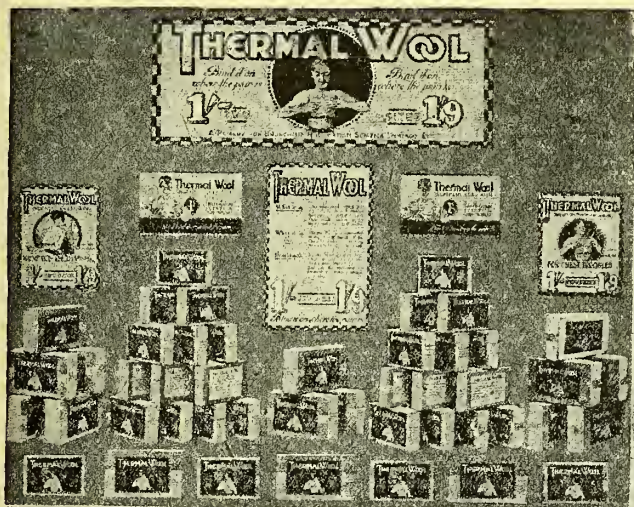
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28 lbs. at 1/8½ per lb., 1 cwt. at 1/8 per lb.

LOZENGES

Brompton Hospital, 7 lb. boxes,
per lb. 1/10
„ decorated tins „ doz. 3/3
Linseed, Liquorice and Chloro-
dyne, 7 lb. boxes, per lb. 1/10

OLIVE OIL

Extra-Vierge Provence*

Winchesters per gal. 17/6
1 gallon tins „ „ 16/6
Barrels (40 gal.) „ 14/-

*The finest that can be offered

Finest Pharmaceutical B.P.

Winchesters per gal. 12/6
Barrels (40 gal.) „ 10/6

BORIC LINT

1 lb.	28 lb.	1 cwt.
per lb. 1/11	1/10	1/9

COTTON WOOL

White Absorbent, Interleaved		
1 lb.	28 lb.	1 cwt.
per lb. 1/3	1/2½	1/1

LINT

White Absorbent, Surgical		
1 lb.	28 lb.	1 cwt.
per lb. 2/7	2/6	2/5½

HOT-WATER BOTTLES

Grey Rubber, Best Make

Size	Each
6 × 8	3/6
6 × 10	3/9
6 × 12	3/11
10 × 8	4/3
12 × 8	4/9
14 × 8	5/3
12 × 10	5/3
10 × 14	6/6
12 × 16	8/-

1 dozen by weight at 5/10 per lb. net.
3 dozen lots at piece rates, 5% discount.

We also have the most complete stock of proprietary goods in the trade.



Pharmaceutical & Photographic Products

(Wholesale quantities only).

Your enquiries are specially invited for the following—

Acetic Acid

Binoxalate/Potash

Formaldehyde

Bromides

Hexamine

Eucalyptus Oil

Sugar of Milk

Terpine Hydrate

SPOT OR FORWARD DELIVERY.

R. W. Greeff & Co. Ltd.

Thames House, Queen Street Place, London, E.C. 4

Telephone 6550 City
(8 LINES.)

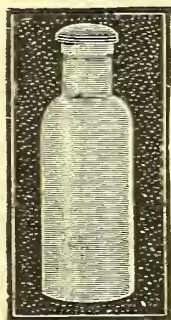


MANCHESTER BRANCH
PALATINE BANK BUILDINGS
10, NORFOLK STREET.
TELEPHONE CITY 5706/5707

NEW YORK AGENTS
R. W. GREEFF & CO. INC.
78, FRONT STREET.

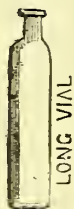
"WE WANT—"

Well, if it is **GLASSWARE**, send along your enquiry to us at once, for prompt delivery from stock; no waiting for general trade requirements. Immense stocks at our London and Provincial Depots. Let us quote you.



KALI.

KALIS.
LIMES.
MEDICALS.
EAU DE
COLOGNES.
OPAL
POMADES.



SMELLING-
SALTS.
SYRINGES.
DROPPING
BOTTLES.
SURGICAL
GLASSES.



MEDICAL.

CHEMICAL & LABORATORY GLASSWARE, TEST
TUBES, VIALS, BURETTES, SAMPLE TUBES, &c. &c.



TABLET BOTTLE.



TWO-ENDED FEEDER.

Narrow-mouth SHOP
ROUND

*Wholesale Only.
No Retail Firms Supplied.*

JULES LANG & SON,

CHARLTON WORKS,

CHARLTON PLACE, ISLINGTON, N.1

(Opposite Agricultural Hall).

Telephones: North 2770-2 (3 lines).
Telegrams: "ASSORTED, PHONE, LONDON."

Codes: A B C, 5th Edition. Scott's 10th Edition (1906).
Bentley's Complete Phrase Code.

PLEASE MENTION THIS PAPER WHEN ENQUIRING.

Maw's



Page

Nov. 5, 1921

No. 525

The Pharmacist's own Proprietary "Parex" Manicure Methods

Because they are the exclusive property of the pharmacist and are not supplied to outside trades—Because they bring repeat orders to the pharmacist only—Because they are helping him to secure the business of manicure requisites for himself, "Parex" Manicure Methods are stocked and prominently displayed by all discerning members of the profession.

"Parex" Manicure Methods are a concrete example of the fact that the thought of to-morrow governs the policy of the House of Maw to-day; a definite illustration of our loyalty to the retail pharmacist.

Concentrate on "Parex" Manicure Methods for Christmas business and you will be laying the foundation for profitable regular business.

Telephone:
City 7
Private
Branch
Exchange

Telegrams:
Eleven
Cent
London

S. Maw, Son & Sons Ltd..
Aldersgate St., London.
and Barnet.

Cables:
Eleven
London
Code
A.B.C.
4th & 5th
Edition



USED FIRST

Peldo

(Patent applied for)
Skin Cream

DEFIES DIRT

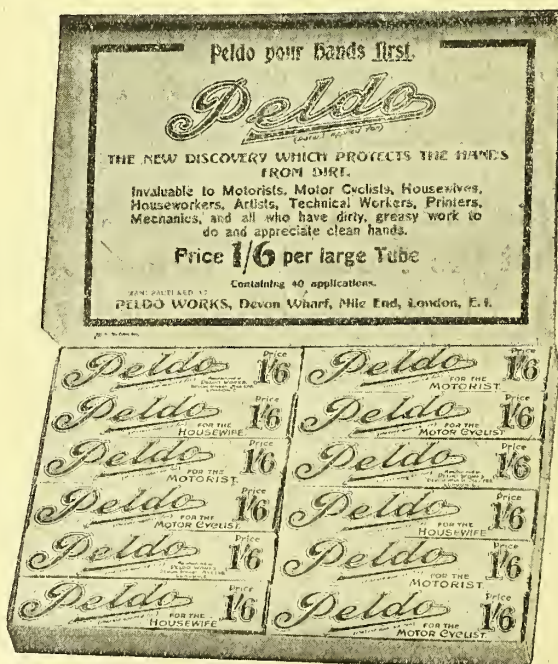
It is hard to clean your hands in the summer after doing dirty jobs, but it is twice as hard in the winter. Further, the use of strong soaps and caustics chap and roughen the skin, but by using "Peldo" the hands are washed clean without trouble and the skin is made white, soft and velvety

We are just launching a big advertising scheme in the "Daily Mail" which will undoubtedly increase the demand, and we would be pleased to receive your enquiries, in order that prospective customers will not be disappointed and you also to receive your share of the profit. Bear in mind it will be new business, as this is the only preparation of its kind on the market.

RETAIL PRICE

1/6
EACH NET
(P.A.T.A.)

Attractive
Window Display
material and
Showcards supplied.
Sample
Tubes supplied
gratis in proportion
to quantity
ordered.



WHOLESALE
PRICE

13/6
PER DOZEN

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows:

On Orders of 1 gross a bonus of 18 full-size tubes
On Orders of 6 dozen a bonus of 8 full-size tubes
On Orders of 3 dozen a bonus of 3 full-size tubes

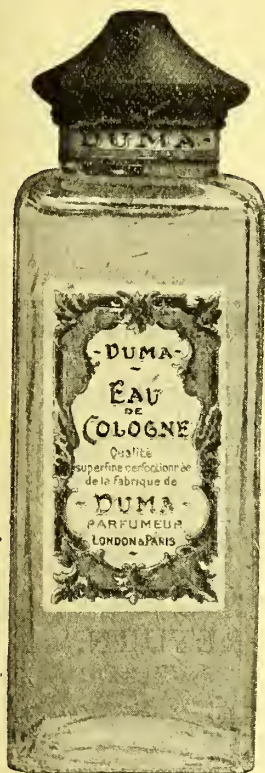
Further particulars on application to

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, EMMOTT STREET, MILE END, E. 1.

EAU DE COLOGNE Duma

Possessing a rich bouquet of exceptional fragrance and featuring a clear departure from orthodoxy of style.



Cat. 9001.



Cat. 9010.



Cat. 9031.

Cat.		Retail	W'sale
9001	2 oz.	5/-	42/-
9002	4 oz.	9/6	80/-
9003	8 oz.	18/-	151/-
9004	16 oz.	35/-	294/-
9010	2 oz.	5/-	42/-

£5 lots 5%; £10 lots 7½%
Carriage paid.

COLOGNE GLACÉE



Cat. 9050.

EAU DE COLOGNE RUSSE

Cat.		Retail	W'sale
9031	1½ oz.	4/6	38/-
9032	4 oz.	12/6	105/-

EAU DE COLOGNE GLACÉE

9050	3/6	31/6
------	-----	------

Telegrams : "AYBELIM, FINSQUARE, LONDON."

Telephones : CLERKENWELL 1347-8-9.

ARTHUR BERTON, LTD.

MANUFACTURERS

SHOWROOMS AND
WAREHOUSES . . . } **15 & 17 WORSHIP ST., LONDON, E.C.2.**

MANCHESTER, 77 Lower Chatham Street ; and GLASGOW, 84 Miller Street.

HEAT-PRODUCING CHEST PROTECTORS

MADE FROM
CAPSICUM AND
METHYL -SALICYLATE
WOOL
ALL SIZES IN STOCK.

PNEUMONIA JACKETS

MADE IN 6 SIZES.

8" × 6" to 21½" × 15½"

SPECIALS
TO ORDER
PER RETURN.

PERFECTUM SERIES

ACCOUCHEMENT OUTFITS

COMPLETE IN
EVERY DETAIL.
MADE IN BEST
MATERIALS.

ACCOUCHEMENT SHEETS

DELIVERY FROM STOCK.

SPECIAL SIZES
MADE TO ORDER
& DESPATCHED
PER RETURN.

LONDON MADE. IN OUR OWN FACTORY.



The Most Popular

Throat Tablets which carry the recommendation of the Medical Profession are undoubtedly

IODISED THROAT TABLETS

Ry Tinct. Iodi	-	-	-	m 1-5
Acid Carbol.	-	-	-	m 1-10
Menthol	-	-	-	gr. 1-30
Acid Citric and Sacch. Alb.	-	-	-	gr. 5

They are largely prescribed for Sore and Ulcerated Throats, Quinsy, Tonsilitis, etc.

Supplied in bulk or screw-capped bottles, neatly cartoned, with chemist's name on label on orders for six dozen and upwards.

	1	14	28	56 lb.
Price in bulk, per lb.	2/10	2/9	2/8	2/7
Cartoned -	-	-	-	25's 50's
Per dozen	-	-	-	4/9 6/9
Per gross	-	-	-	54/- 78/-

Special quotations for larger quantities.

We shall be pleased to forward sample and specimen packing on request.

AYRTON, SAUNDERS & Co. LTD
Manufacturing Chemists
Hanover Street, LIVERPOOL

Telegrams : "SUNDRIES LIVERPOOL."

Link Your Selling Effort to Musterole Advertising

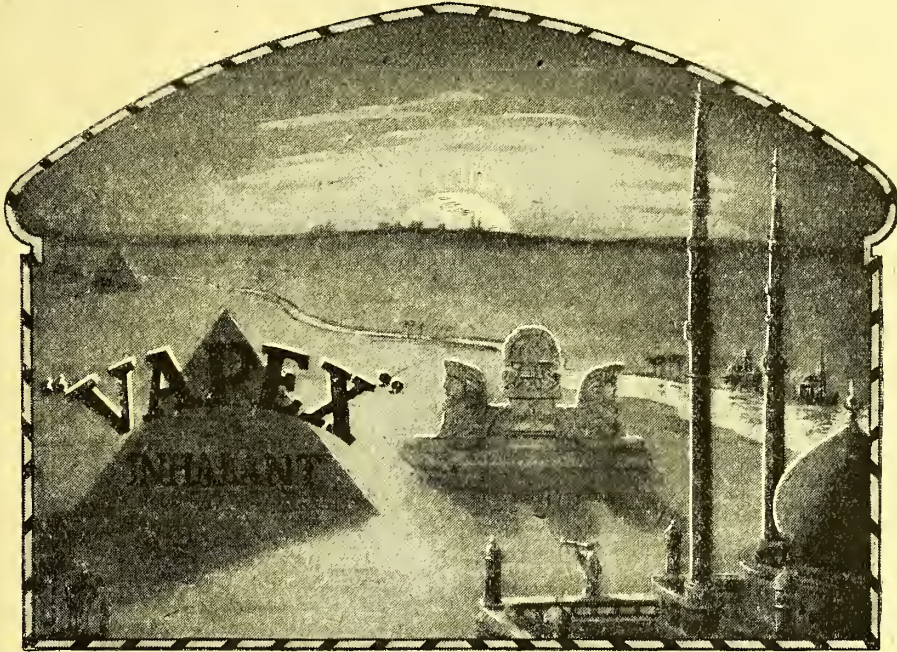
So widely advertised is Musterole, and so prevalent are the ailments which Musterole cures, that an increasing number of people are to-day demanding Musterole.

Make certain you reap the full benefit from this demand. Don't give your public a chance to wonder where they can buy Musterole. Display Musterole prominently in your window; use Musterole window cards and stickers. Stamp your shop on the public mind as the local source of supply for Musterole. Let your window remind your public that Musterole cures colds, coughs, chills, aches and sprains.

If you do not already stock Musterole, write for prices and all trade information.



THOS. CHRISTY & CO.,
4/12 OLD SWAN LANE,
LONDON, E.C.4.



Awake ! for morning in the bowl of night,
Has flung the stone which puts the stars to flight ;
And lo ! the hunter of the East has caught
The Sultan's turret in a noose of light.

—Omar Khayyam.

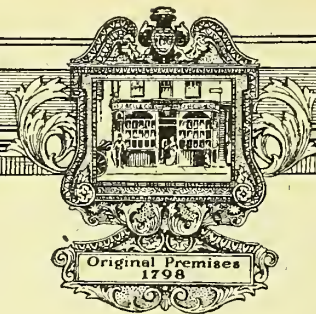
THE dawn of a new Cold-in-the-Head season finds "Vapex" established in public favour as firmly as are the Pyramids on their desert rock, or, may we add, the double-sphinx trade mark in pharmaceutical estimation. As one of the very few preventives that gained added prestige during the influenza epidemics of 1918-19, "Vapex" has ever since been more saleable than ever, and the personal recommendation of gratified users tends to make "Vapex" better and ever better known. It is now desirable to order a good supply for the winter season.

"Vapex" retails at 2/- per bottle, including stamp.
The trade price is 18/6 per doz. (P.A.T.A.)



THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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The "MARYLEBONE"

STERILIZED

ACCOUCHEMENT OUTFITS.

These Outfits contain sufficient dressings, etc., for the accouchement.

THE "MARYLEBONE" OUTFITS are always "GOOD STOCK" as the contents cannot deteriorate or become soiled, and sterility is maintained.

Retail Prices :

No. 1 Outfit

31/6

No. 2 Outfit

63/-

Trade Terms and descriptive literature on application.

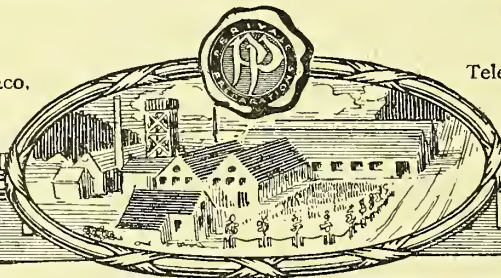
IT WILL PAY the Pharmacist to hold stocks of these outfits. A large demand is being created by means of an intensive Press campaign.

JOHN BELL & CROYDEN, Ltd.

50 Wigmore Street, LONDON, W. 1.

Telegrams : "Croybelaco,
Wesdo, London."

Telephone: Mayfair 5015
(4 lines.)





NOW is the time to place your orders for:—

COD LIVER OIL EMULSION

The "Sanoid" Brand preparation has the following advantages:—

- (1) Only the finest non-freezing oil is used,
- (2) The preparation is non-separate,
- (3) It is elegant in appearance and very palatable,
- (4) It is attractively packed.

Packed in the following strengths and sizes:—

		3 oz.	4 oz.	8 oz.	12 oz.	16 oz.
25% ...	7/3	8/-	12/3	15/-	18/6	
33½% ...	7/6	8/3	13/-	16/-	20/-	
50% ...	8/6	10/-	15/3	18/6	24/6	

Attractive Showcards supplied with all orders.

CUXSON, GERRARD & CO., LTD.

OLDBURY, near BIRMINGHAM.



ESSENFLOUR PRODUCTS LTD.

MYSORE (S. INDIA)

*Distillers of Essential Oils and Manufacturers
of Perfumery Products*

AMBRETTE SEED OIL
CARDAMOM OIL
CALAMUS ROOT OIL
CORIANDER OIL
CINNAMON BARK OIL
CINNAMON LEAF OIL (Speciality)
CLOVE OIL B.P.

DILL OIL (East Indian)
EUGENOL
GINGER OIL
NUTMEG OIL
PATCHOULY OIL
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Sole Agent for Europe—

K. B. MAVLANKAR

26/27 Hatton Garden, LONDON, E.C.1

and 29 Corporation Street, MANCHESTER.

JAKSON'S PEPPERMINT, LAVENDER & CAMOMILE OILS

are the BEST.

Produced and Prepared by
THE LARGEST GROWERS & DISTILLERS
IN ENGLAND.

Distillery :

J. JAKSON & CO. (Mitcham Rd., 1921), LTD.
Mitcham Road, WEST CROYDON.

AGENTS for the U.K. :

F. NEWBERRY & SONS, LTD.
27 & 28 Charterhouse Square, London, E.C.1.

Shipkoff's Pure Otto of Rose

The TEST of Cheapness is QUALITY—not PRICE

SHIPKOFF'S OTTO OF ROSE is the Cheapest, because it is the Best Otto in the market. It is the *Standard Brand*—always pure, uniform and one quality only. Before placing your contract, be sure to get Shipkoff's sample and price, and try it. Original Sample Coppers in 1, 2 and 4-oz. sizes.

ONCE TRIED—ALWAYS USED.

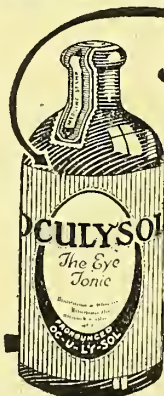
Highest Awards at all Universal Expositions, including Four Grand Prizes.

Shipkoff & Co., Kazanlik, Bulgaria.

BRANCH OFFICE IN SOFIA.

Model Steam Factories in Kazanlik, Kalofer, Kerlovo and Rahmenlari. London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C.1



*To introduce
our new label*

Don't wait until you are asked for

OCULYSOL

THE IDEAL EYE TONIC

STOCK IT NOW

Overseas enquiries invited.

Obtainable from Wholesalers and Sole Proprietors:
The Ophthalmic and Chemists' Supply Co., Ltd.
77 Wigmore Street, W.1



Guaranteed Shaving Brushes

Each in Box. Each branded with trade mark and reference number. A generous guarantee tag fixed to each brush. A RANGE OF 100 MODELS TO RETAIL 2/3 to 63/- each. ELEGANT SHOW CARDS & WINDOW BILL SUPPLIED



Latest Novelty!

MASTERPIECE TRAVELLING BRUSH

In one piece. Neat, collapsible, hygienic. No parts to get lost. A TRIUMPH IN SHAVING BRUSH MANUFACTURE.

No. 21, 7/6 retail. No. 31, 13/6 retail.
(Black) (White)

Discount 33½ per cent.

Each in box. Show Card supplied.

Order a Trial Range To-day

Paul Poirer's ROSINE PERFUMES

Amazingly good, original and beautiful. A sure means of cultivating high class and profitable perfume trade. Twenty different models, retailing 21/- to 63/- each.

Write for Tariff and
Coloured Illustrations.



W. H. CALNAN & CO., LTD.

30 - 32 LUDGATE HILL

LONDON, E.C. 4.

IT IS NOT BY CHANCE

that our Eau de Cologne is sold by almost all our numerous customers. It is because it is **really good, and shows a satisfactory profit on a quick sale.**

A quality product through and through.

	Per doz.
$\frac{1}{2}$ -oz. size	8/-
1-oz. „	12/-
2-oz. „	22/-
4-oz. „	42/-
8-oz. „	81/-
1-oz. flask	12/-
4-oz. „	42/-
Wickered—	
$\frac{1}{4}$ -pt. „	39/-
$\frac{1}{2}$ -pt. „	72/-
1-pt. „	140/-
1-qt. „	252/-
Watch Shape	36/-



Eau de Cologne
Johann Maria Farina



Qualité
"EXTRA FINE."

PARIS et LONDRES

Facsimile of Label.

WM. EDWARDS & SONS

157 QUEEN VICTORIA STREET.

239/240 UPPER THAMES STREET, LONDON, E.C. 4.

Telegraphic Address: "Medicines, Cent, London."

Telephones: Central 1400 and 1401.



PARFUMS DE LUZY.

Illustration demonstrates the sweet simplicity of the package.

FLORAL ODORS. Rose, Violet, Muguet, etc. 5/- and 13/6 retail. Discount 33 $\frac{1}{3}$ %.

PRECIOUS ODORS. Ambre, Chypre, Origan. 5/6 and 17/6 retail. Discount 33 $\frac{1}{3}$ %.

SPECIALITIES. Pourpre Antique, Frais Jardin, etc. 6/6 and 17/6 retail. Discount 33 $\frac{1}{3}$ %.

DE LUZY <London Office>

3 LONDON WALL AVENUE, E.C. 2

W. H. CALNAN

General Manager

FLORAL BATH CRYSTALS



2430

In Bottles. Fitted Boxwood Top
Corks, Capped and Ribboned.

Assorted Odours—Lavender, Verbena,
Cologne, Oriental Rose and Violet.

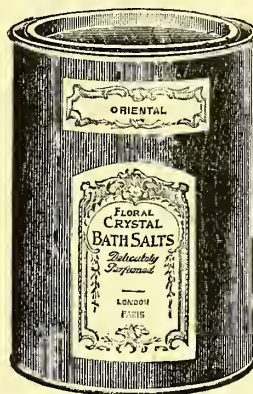
2 12 15 32 60 oz..
12/- 16/6 20/- 36/- 66/- dozen.

Customer's Name on 3 dozen assorted.

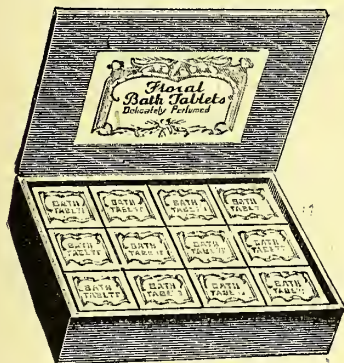
Assorted Odours as above, in Lever
Lid Packages Covered Wood Veneer.

2 4 7 lb.
26/- 50/- 90/- dozen.

Customer's Name on 3 dozen assorted.



3568



3569

COMPRESSED FLORAL BATH TABLETS

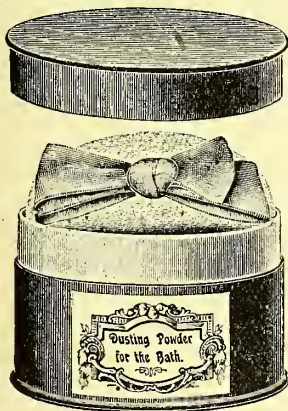
Assorted Odours as above.

In boxes of 1-dozen Tablets,
20/- dozen Boxes.

In Boxes of ½-dozen Tablets,
12/- dozen Boxes.

Tablets loose, each in Carton,
15/- gross.

Customer's Name on 3-dozen Boxes.



DUSTING POWDER FOR THE BATH.

IN WOOD VENEER BOXES.

5" × 3½"

Complete with Wool Bath Puff.

No. 3688 39/- dozen.

Without Puff 20/- "

Telephone:
HOP 4170
(2 lines).

WILLIAM TOOGOOD LTD
77, SOUTHWARK ST
LONDON, S.E.1.

Telegrams:
"TOOGOOD,
BOROH,
LONDON."

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - . . .	10/-	1/-
A complexion soap.		
PROLACTUM - . . .	10/-	1/-
For the lips.		
PARSIDIUM JELLY - . . .	10/-	1/-
For wrinkles.		
ALLACITE of ORANGE - . . .	22/6	2/6
A dressing cream. BLOSSOM		
BORANIUM - . . .	22/6	2/6
A hair tonic.		
SILMERINE - . . .	22/6	2/6
Hair curling fluid.		
CLEMINITE - . . .	22/6	2/6
For a face lotion.		
COLLIANDUM - . . .	22/6	2/6
For a face tint.		
PERGOL - . . .	22/6	2/6
A deodorant.		
STALLAX - . . .	22/6	2/6
For a shampoo.		
JETTALINE - . . .	31/6	3/6
For clearing the skin.		
PHEMINOL - . . .	36/-	4/-
A depilatory.		
TEKKO PASTE - . . .	22/6	2/6
Camphor cream.		
MENNALINE - . . .	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX - . . .	31/6	3/6
A face cream.		
STYMOL - . . .	36/-	4/-
For oily complexions and blackheads.		
BARSYDE - . . .	22/6	2/6
Dandruff eradicator.		
TAMMALITE - . . .	22/6	2/6
For grey or faded hair.		
LIQUID PERGOL - . . .	31/6	3/6
To check excessive perspiration locally		
BICROLIUM - . . .	22/6	2/6
For whitening the hands.		
COCONOIDS - . . .	31/6	3/6
For figure development.		
HARAPOSA - . . .	22/6	2/6
Nut oil shampoo.		

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES:

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KEMP & CO., Ltd. (Bombay).
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R. MACLURE (Madras).
SMITH, STANISTREET & CO. (Calcutta).
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JAMNADAS BROS. (Bombay).

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DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

THE
ORIGINALUSUAL
WHOLESALE, OR

SECKER, ROBB & CO.

Cromwell House,
SURREY STREET, W.C. 2.Telegrams: "Tinophiz, London."
Telephone: Central 2420.

"Newbery's"

FRANCIS NEWBERY & SONS LTD.

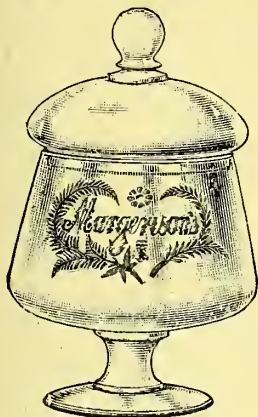
COMPLETE RANGE OF

Packed Pharmaceuticals,
Toilet Preparations,
"Own Name" Packed Goods.

SUNDRIES—

Best British Tooth Brushes,
Hair Brushes, and Shaving
Brushes. Mirrors,
Manicure Requisites, etc.FRANCIS NEWBERY
& Sons, Ltd.
LONDON & CARDIFF.

FREE! FREE! FREE!



TO further introduce MARGERISON'S TOILET SOAP amongst Chemists, we are prepared for the time being to offer a handsome GLASS SHOW BOWL (as illustrated) free with orders of two gross.

TAKE ADVANTAGE OF THIS OFFER & INCREASE YOUR SALES.

Price list and discount terms on receipt of postcard.

J. MARGERISON & CO., Toilet Soap Manufacturers,
White Windsor Soap Works, PRESTON.



SNOWFIRE is in great demand. Other traders are asking for stocks, but we have refused to supply except to chemists and druggists.

The whole of this trade is awaiting you, but let the public know you stock it. Display Snowfire well—it will pay you.

Snowfire is being consistently advertised.

Above is one of our SMALL advertisements.

Snowfire

There is an all-the-year-round sale for Snowfire. Shows substantial profit. Attractive advertising matter free.

F. W. Hampshire & Co. Ltd.
Riverside Works, DERBY.



CRÈME CHÂTEAU

A Toilet Cream
manufactured by

Babette, Ltd.

28 Eagle St., London, W.C. 1.

TERMS ON APPLICATION.

YOU

will be interested in
the following lines:—

- Specimen Tablet Soaps, four tablets in a box, at 4/6 doz. boxes.
- Large round perfumed Bath Soap at 4/6 doz. tabs.
- 2oz. Brilliantine, asst. sprinkler tops, at 6/- doz.
- Castor Oil, finest French water white, at 10d. lb.
- 44 lb. tins at 9½d. lb. (tin free).
- Toothbrushes (Special), at 3/-, 3/6 & 4/- doz.

**EASTERN
DRUG & CHEMICAL CO.**
Phone: CITY 4666.
2 ST. JOHN'S LANE, E.C. 1

A Special Line for the Christmas Trade.

PRICE'S POPULAR COMBINATION BOXES (1921 Series)

Each box contains two wrapped tablets of choice toilet soaps and a bottle of excellent perfume. The general appearance of this line is dainty and artistic to the last degree.

In the following varieties: Eau de Cologne, Lavender, Violet, Lily of the Valley. Each variety in a dainty and distinctive box.

Price 32/6 per dozen boxes.

ASK US ABOUT "A SUMMER NIGHT" PERFUME.
AN EXCELLENT LINE FOR CHRISTMAS.

Terms on application to—

PRICE'S, Battersea, S.W.11



THE EVAN WILLIAMS' EMULSIFIED COCOANUT OIL SHAMPOOS

in liquid form (2 sizes)

in powder form (packets)

They are well up to the Evan Williams' standard of production, sell freely, and give a handsome profit.

Write for "The Shampoo Salesman," which gives full details of all our Preparations.

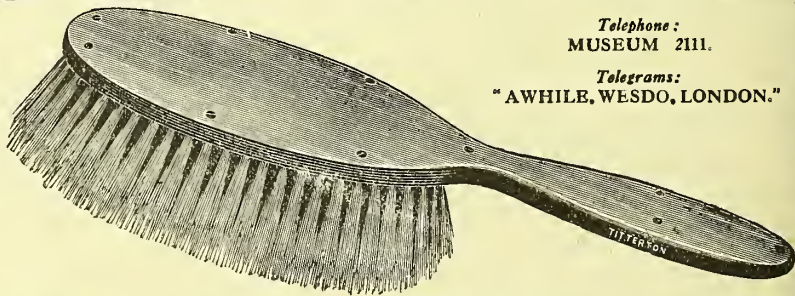
THE EVAN WILLIAMS CO., LTD., 18 & 18a Ogle Street, LONDON, W.1.

The largest Shampoo Specialists in the world.

HAIR BRUSHES

NAIL BRUSHES.
CLOTHES BRUSHES.
SHAVING BRUSHES.

*Everything in the way
of Brushes.*



Telephone :
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**TITTERTON & HOWARD LTD., 8-10 GT. TITCHFIELD STREET,
LONDON, W.1.**

RECOMMEND JOHN BOND'S "CRYSTAL PALACE" MARKING INK

16 YEARS ON THE P.A.T.A.

A STRAIGHT 6d. and 1/- LINE.

The public buys more "John Bond's" every year. A word of suggestion will often sell a bottle: Marking Ink is one of the things of which people need to be reminded, and they will always take "JOHN BOND'S" (HEAT or NON-HEAT), which is warranted to fulfil every requirement,

YOUR WHOLESALE HOUSE KEEPS IT!

6d. size, 4/3 doz. (30% profit); 1/- size, 8/- doz. (33 $\frac{1}{3}$ % profit).

A Linen Stretcher and Special Marking Pen given with the 1/- size.

N.B.—WHEN ORDERING, PLEASE SPECIFY IF HEAT OR NON-HEAT IS REQUIRED.

WORKS:

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LONDON, N.1.**



6d. size in enlarged square
Bottle (as illustrated).

Wholesale Terms.

Minimum—1* gross 6d., 44/- or
mixed order to same value; 1 gross
1/-, 80/-; subject to customary
discount on quantities. £2 4s. 0d.
and up carriage paid.

A CHRISTMAS MAGAZINE FOR CHEMISTS



THIS MAGAZINE has been specially prepared for CHEMISTS, it is well got up and contains sixteen pages of extremely interesting reading, comprising a good story by a well-known Author, Christmas Cookery Hints, Christmas Articles, Puzzles, Tricks, Conundrums, and amusing matter for Children. Also a pleasing CHRISTMAS SONG with

WORDS AND MUSIC

The Magazine is so arranged that the
CHEMIST WILL FIND AMPLE SPACE FOR ADVERTISING HIS

CHRISTMAS GOODS

Name and address can be printed on Front Cover.
Price list or any Speciality can be Advertised on back.

WE GUARANTEE NOT TO SUPPLY MORE THAN ONE CHEMIST IN A TOWN.

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AND BE THE FIRST TO SECURE PUBLICATION IN YOUR DISTRICT.

Two Lines which you, Mr. Chemist

They always mean a pleased and satisfied Customer



ALKIA SALTRATES.

A widely advertised and quick selling product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Protected on P.A.T.A. at the full face value of 3/3 a large bottle.

A FEW OF THE OF ALKIA SALTRATES who have written us praising them



Mr. A. F. BETTINSON,
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FURTHER ENDORSEMENT.

Amongst the hundreds of other well-known people in the Sporting World who have received letters telling us of the benefits they have derived from using our

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Not designed as the cheapest preparation of

YOU CAN STOCK THESE GOODS ON GUARANTEED SALE TERMS.

Carriage paid in United Kingdom on order for 3 dozen, which may be assorted. Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from present extensive advertising campaign.

Recommend with Full Confidence

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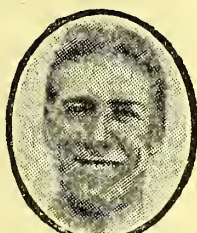
EL BATH SALTRATES,
ucts in the highest possible terms.



CARPENTIER,
Heavy-weight
Champion.



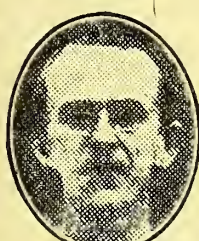
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BILLY WELLS,
Famous Boxer.



HOBBS,
All England
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TOM PAYNE,
Champion Long-distance
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ousands of commendatory letters on file,
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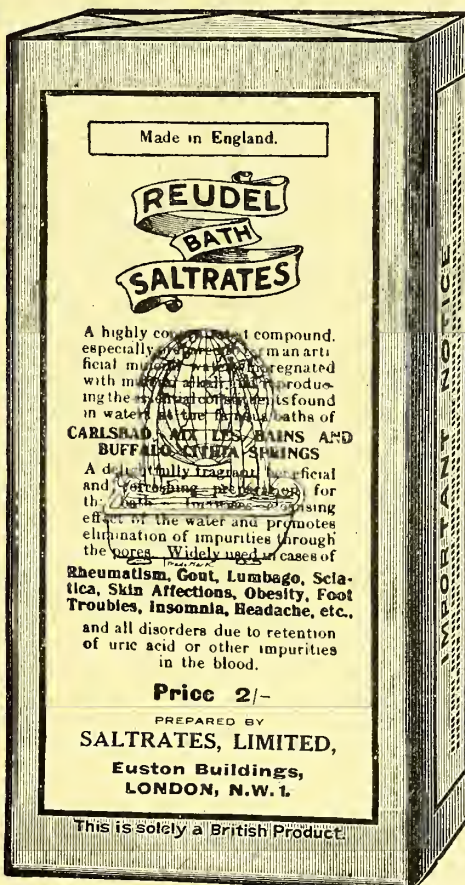
of the medical profession, trained nurses, prominent business men,
s and actresses, men well known in the Army, Navy, sporting world,
of life are amongst thousands of the correspondents who have written
ur Saltrates in the highest possible terms after having experienced
he curative effects. The ethics of the medical profession do not permit
public any physicians' names, but our files of other commendatory
en to inspection by anyone at any time.

at the best producible, regardless of cost.

WE CAN GUARANTEE IMMEDIATE
DELIVERY OF ORDERS FOR ANY
QUANTITIES.

We are fortunate in being able to announce
that foresight shown in the laying in of very
heavy stocks of supplies in anticipation of the
shortage which afterwards developed, still
enables us to guarantee full and prompt
delivery of orders for any quantities.

REUDEL BATH SALTRATES.



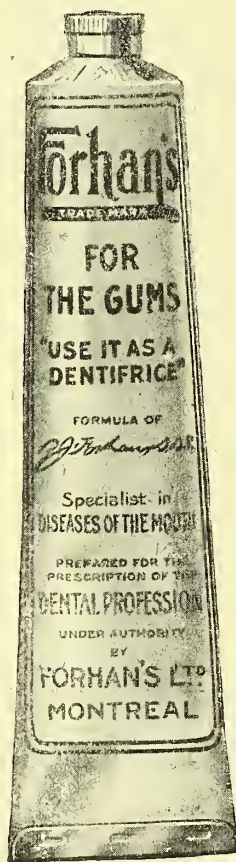
The best selling and most
fragrant, refreshing, beneficial
and all-round satisfactory pre-
paration for the bath or for
general toilet purposes.

Especially recommended in
cases of foot trouble or rheu-
matic pains, stiffness, etc. Now
being extensively advertised.

Protected on P.A.T.A. at the full face
values of 2/- and 3/3 (double size).

Forhan's First Aid to Better Teeth.

At a lecture to the Institute of Hygiene, reported at length in the *Daily Express* of October 22nd, it was stated that there are 200,000,000 carious teeth in the country, and that Pyorrhea at present afflicts a majority of Britons over thirty.



The prominence given to such statements in the daily press indicates the wide public interest aroused in dental hygiene. In consequence the sales of Forhan's For the Gums are steadily increasing, for Forhan's is a proved healing agent in cases of Pyorrhea, and definitely prevents the disease if used in time and used consistently.

Get your share of this increasing Forhan trade; if you do not already stock Forhan's write to-day for prices and full trade information.

Thos. Christy & Co.,
4-12 Old Swan Lane,
London, E.C.4.

Forhan's

FOR THE GUMS

"Jackel's Cream"

(without Grease)
for THE HAIR

Sold everywhere
Established 1883.



CRYSTALLISED
1/9 CREAM 2/6
Trade Mark attached to each
bottle.

"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export
Houses on application.

Jackel et Cie (of Paris)
Ltd..

Sauchiehall Street
GLASGOW.



Mr. Geo. R. Sims' "Tatcho" and "Tatcho-tone." A big vigorous impressive advertising campaign, covering the whole of the British Isles, is now being pursued. A vastly increased volume of business is inevitable. Generous profit to the trade has been arranged.

TATCHO
THE HAIR GROWER
Price 2/9

Wholesale :
26/-
PER DOZEN.

TATCHO-TONE
FOR GREY HAIR
Price 4/6

Wholesale :
42/-
PER DOZEN.

GEO. R. SIMS' HAIR RESTORER CO.
5 Great Queen St., Kingsway, LONDON, W.C.2.



People are looking for Sorbo Sponges

IN your district there must be many men and women who have said to themselves, "Next time I see a Sorbo Sponge I'll buy one." Put a Sorbo Showcard in your window and they will buy their Sorbo Sponges from you.

If you could see the books of other firms you would be astonished at the way in which retailers are making money from this quick-selling line.

Sorbo Sponges are packed in transparent hygienic bags to prevent contamination.

RETAIL PRICES.

No. 1, 1/3; No. 2, 2/-; No. 3, 3/-; No. 4, 5/-
Bath Sizes: No. 4R, 7/6; No. 5, 10/6

Get in a good stock of assorted sizes, and display them on your counter. **WRITE TO-DAY!**

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE

SORBO RUBBER-SPONGE PRODUCTS, Ltd., 24 WALBROOK, LONDON, E.C.4.
Telephone: City 9372. Telegrams: "Osorbeau, London."

BIDWELLS

Factories: AXMINSTER, DEVON.



WE OFFER



FOR XMAS TRADE.

TUSKOID

Superfine Cut—Non-Inflammable.

Fine Tooth Combs.

8/- 10/- 12/- per dozen.

Glass-fronted Showcase free with 3 dozen Combs,
£1 10 0

MAZEPPA

ENGLISH MADE TOOTH BRUSHES

Transparent. Three Colours.

4 Row; Best Bristles ... 11/6 doz.
3 Row; Children's... ... 8/- doz.

GENUINE IVORY

FOLDING POCKET MANICURES

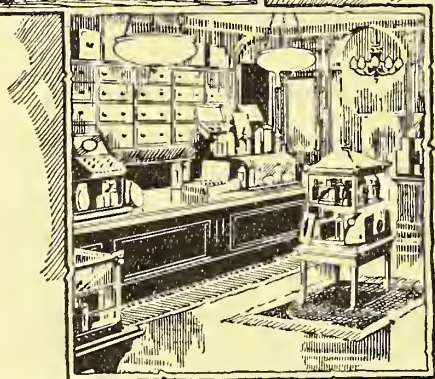
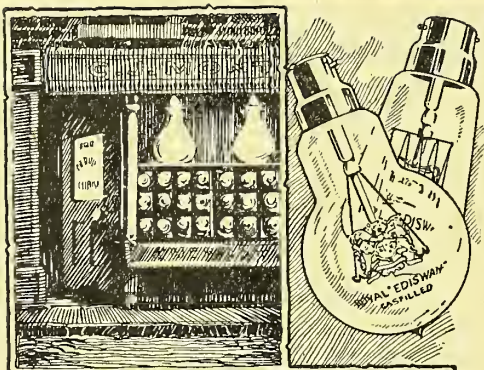
Containing Nail File, Toothpick and Cuticle Spoon.
8/- doz. carded.

BONE NAIL FILES

Assorted sizes. 1 doz. on card. 3/- per card.

H. J. LEE & CO.

Osborne Works, LANCASTER.



104.C.D.

Fresh Ideas on Lighting

The modern Chemist and Druggist's Store is a vast improvement on its predecessor. The little dark gloomy shop of pills and powders has given way to the modern store, inviting, well-furnished and well-lighted.

The lighting of a Chemist's Store affords endless opportunities. With this in view, we are this season offering the free advice and service of our illuminating engineers to help you to obtain the maximum value from your lighting.

Royal "Ediswan" Lamps need no trumpeter.

The Royal Warrant they bear is a token of their value.

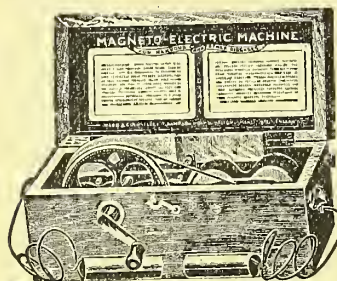
Let your lighting be "Ediswan" Lighting arranged by our own experts, and your store will be a centre of attraction all the winter.

Write for Shop Lighting Folder, LL 237.

ROYAL "EDISWAN" ELECTRIC LAMPS for Every Purpose

Fully Licensed under Patents Nos. 23499/09, 10918/13 and others.

The Edison Swan Electric Co. Ltd., PONDERS END, MIDDLESEX.



MAGNETO MACHINES.

British Made.

No. N3/3A. Very powerful and handsome Magneto, with cog wheel drive. Fitted in polished Mahogany case with lock and key. Size 10 x 5 1/2 x 4 1/2 in. Really wonderful value. Price 36/- each net. No. N3/0A. Single Wheel Magneto in polished Pine case, regulator cord and handles complete. Approx. size 8 x 4 x 3 1/2 in. Price 18/- each. No. N3/0A. Single Wheel Magneto, more powerful in every particular. Approximate size 8 1/2 x 5 x 4 in. Price 22/6 each.

Latest and Greatest Seller.

PORTABLE HAND FAN.

Indispensable in the Cinema, Ball Room, Sick Room, etc. Simply PRESS THE BUTTON and the blades revolve at a high speed, creating a refreshing and stimulating breeze. Size overall 5 1/2 in., but when not in use collapses to half size. Price 3/- each net.



The "KIT" TORCH. Size 7 1/2 x 1 1/2 in. A real torch de luxe, heavily nickelled fittings, permanent and flashing switch. Complete with best Battery and Bulb. Price 5/8 each net.

Large range of Torches from 20/- dozen, see Catalogue A21.

Ward & Goldstone
PENDLETON. MANCHESTER LTD.

"ENCYCLOPÆDIA ELECTRICA"

Contains full particulars of a wide range of Electrical Supplies, including Pocket Lamps, Hand Lamps, Torches, Medical Coils, Massage Vibrators, etc. Send for a copy, free on request.



VOLEX GUARANTEED POCKET LAMP DRY BATTERIES.

BRITISH MADE. 6/- Doz. net.

METAL FILAMENT BULBS.

Best Quality.

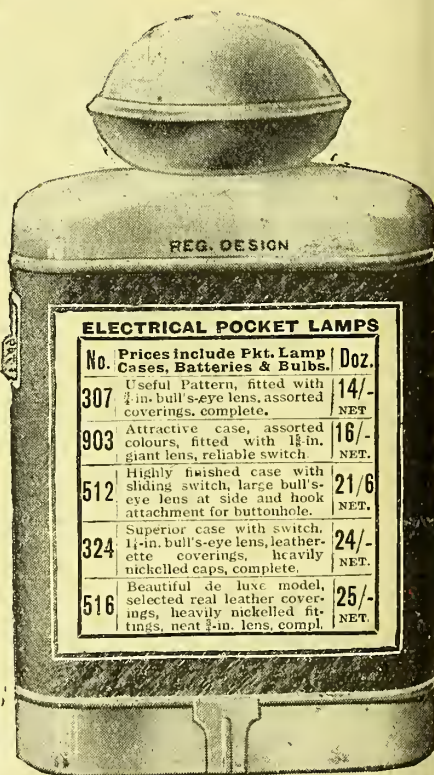
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Electrical Flowers and Scarfpins



Assorted beautiful designs. Fitted with Pea Lamp, Cord and Adaptor. 10/- doz. net. Complete, with Pocket Lamp Cases & Batteries. 20/- doz. net.



ELECTRICAL POCKET LAMPS

No.	Prices include Pkt. Lamp Cases, Batteries & Bulbs.	Doz.
307	Useful Pattern, fitted with 1/2 in. bull's-eye lens, assorted coverings, complete.	14/- NET.
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The prices quoted above are for the complete Pocket Lamps, including Cases, Batteries, and Bulbs.

Price 25s. net.

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Reprint of Nineteenth Edition.

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BRITISH PHARMACOPŒIA, 1914.

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The Pharmaceutical Journal says—"A companion, in the true sense of the word, to the official book."*The Chemist & Druggist* says—"It maintains its unique position as a national work of reference."*The British Medical Journal* says—"No labour has been spared to make the COMPANION a complete, scientific and practical adjunct to the BRITISH PHARMACOPŒIA."*Descriptive leaflet gratis.*

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The Chemist and Druggist says—"The richness of the book in Chemical, Physical and Pharmaceutical data, in Compounding Hints, in non-official Formulas, makes the Pocket Companion of as much value to Dispensers as to Prescribers."*The British Medical Journal* says—"Sufficient has been said to show that the contents of this Pocket Companion fully justify its name; it can be strongly recommended to practitioners."*The Lancet* says—"The Pocket Companion shows evidence of considerable judicious forethought in the selection of data likely to be of service to a wide class of readers."*Descriptive leaflet gratis.*

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MANY SUCCESSES IN THE RECENT EXAMINATIONS!

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PRACTICAL WORK. Students taking the Course may receive personal tuition in the practical work AT ANY TIME DURING THE COURSE.

Expert Tuition by Correspondence for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.), or the British Optical Association (D.B.O.A.).

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G. S. V. Wills, Ph.C., and P. H. Woodnoth, Ph.C.
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Benches now being booked for Courses commencing
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A further series of Weekly Evening Lectures and Demonstrations for candidates for the F.B.O.A. Examination, and for post-graduates, has also been arranged.

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From July to October a series of Vacation Classes will be held for those who wish to widen their knowledge—not necessarily with a view to sitting for any examination.

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Hyposulphite of Soda.

Finest Pea Crystals. 1 cwt. Kegs, 29/- per
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SAMPLE GLADLY.

KEMCO Ltd., 36 Trinity St., HUDDERSFIELD.

The **W** Brand of Hand-Moulded

BOTTLES

AND

**MEDICAL
GLASSWARE**

Free from dangerous "frosted glass."

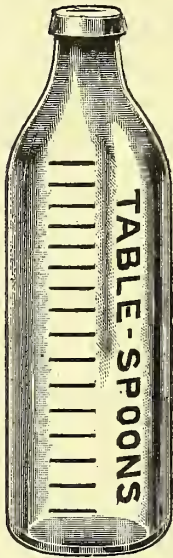
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*Finest Quality Dispensing Bottles,
Poisons, Cheltenham, Chest Squares,
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Proprietary articles, in various colours.
Feeding Bottles and Sterilizing Milk
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Wholesale only—

WOOD BROS. GLASS CO. LIMITED,
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STERILIZING
MILK BOTTLE.



DISPENSING
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GLASS BOTTLES

A LARGE number of my friends already know that I have made the supply of BOTTLES and JARS for the Chemist, Druggist and Sundries Trades a speciality for a period of 20 years or more, consequently I feel certain that no other House can offer better facilities as regards either quality, price, or delivery.

If it should happen that I am not already doing business with your good selves your enquiries will receive prompt and careful attention.

At the moment we have in stock such lines as Medical Flats, Panels, Vials, Kalis, Limes, Mexicans, etc. etc.

TOM LAYCOCK & CO.

(Tom Laycock, Proprietor)

HOLBECK LANE - - LEEDS.

I'm done with no-name Corks!

WHEN you are tired of Corks that snap like carrots—ill-shaped, badly fitting, spongy looking Corks—make a solemn vow: Say, "I'm done with no-name Corks."

When you buy

**PYRAMID
CORKS**

You get what you pay for, and you know what you get—Corks with a guarantee. Unless they are Pyramid Corks, they're not guaranteed by Mitchell's. And sorrow follows the substitute!

Write to-day to—

N. W. Mitchell & Sons, Ltd.

"The Cork Firm."

Limehouse, London, E. 14





The New Home of **AMAMI**

The Amami Laboratories have been moved from 469 Holloway Road to spacious, modern premises, recently vacated by the Sanatogen Co., at 4/10 Chenies Street, Tottenham Court Road, London, W.C. 1.
Telephone: 4536 Museum.

SHARE OUR SUCCESS.

Send us your order for one gross **Amami Shampoo** at **45/-**, we will send you 2 dozen display bonus and 1 dozen full-size samples for introduction to new customers.

AMAMI LTD., 4/10 Chenies Street, LONDON, W.C. 1.

These Brushes are **EXCEPTIONAL VALUE** because they are

PORCUPINE-PENETRATOR

HAIR BRUSH

for strengthening
the hair.



made on Patented Speed
Production Processes and
on Hygienic Principles.

Standard Quality (white
bristles and bone) ... 4/11
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men) 3/11

Chemists, Stores, and Hairdressers can now obtain
supplies through their Wholesale Houses.

M. NEUHAUFER & LEVI, LTD.,
Makers to the Wholesale,
11 Fore Street, London, E.C.2.

Glass Bottles

of every type
in stock.

*Flats, Panels, Rounds, Kalis, Pomades,
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SEND US YOUR ENQUIRIES. WHOLESALE ONLY.

E. DUNCAN DORING 7 King St., Cheapside, London, E.C. 2

Telegrams: "Doringlaso, Phone, London." Phone: City 4000.

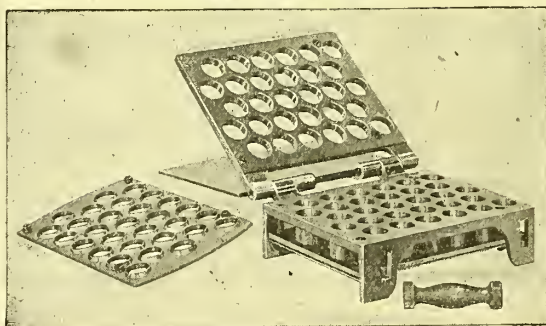
BEATSON'S BOTTLES

*Beatson's Bottles
were first made
in 1751*

**GLASSWARE
FOR
CHEMISTS.**

**BEATSON, CLARK & CO., Ltd.
GLASSWORKS,
ROTHERHAM.**

OPTIMUS CACHET MACHINE.



FILLS CACHETS BY DRY PROCESS.

Rapid in use, and the Cachets filled are elegant in appearance.

Name or device can be stamped on.

Price of Machine 42/- each size.

CACHETS - - - 2/9 per 1000.

Samples on application.

W. MARTINDALE,

10 NEW CAVENDISH ST., LONDON, W.1

Telegrams: "Martindale, Chemist, London."

Telephones: Langham 2440/2441.

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Great Advertising Campaign

A great advertising campaign, bringing before the public the merits of Dynazone, that wonderfully successful preparation for restoring jaded nerves, will be launched shortly, and Chemists, Druggists, etc., are advised to keep well stocked. This advertising will result in an enormously increased demand for the preparation. As a special inducement to stock up in preparation for the demand we are offering a

SPECIAL BONUS OF 10 %

in addition to the usual profit of 6/- per dozen.

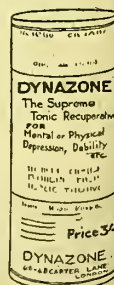
Dynazone is a tonic recuperative for all cases of debility (local or general), mental or physical depression, loss of strength, etc. It is prepared solely by Dynazone, Ltd., and sold for 3/- per box (ten days' treatment).

KEEP WELL STOCKED.

The special bonus remains in force to November 21st. Present prices are 30/- per dozen, less the special allowance of 10%, carriage paid. Send your order to-day.

DYNAZONE, Ltd.

46/48 Carter Lane, London, E.C. 4.





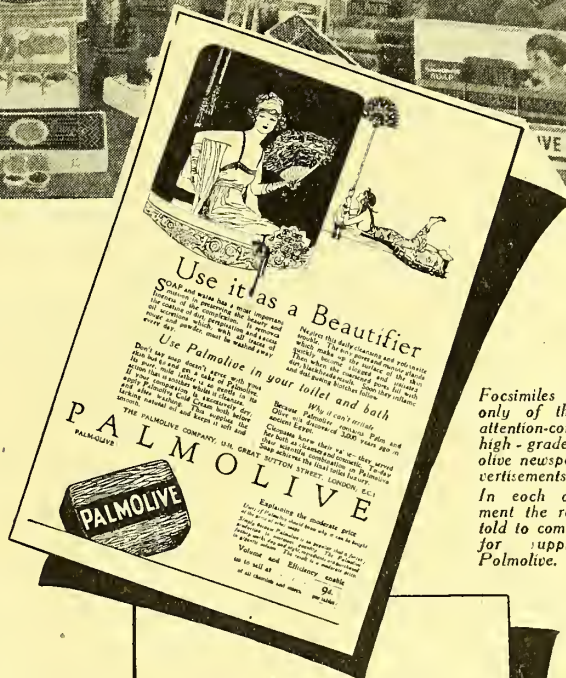
One of the Palmolive Window Displays.

The Helping Hand to record SALES

On how many lines can you get such effective eye-gripping selling helps? On how many lines do you get such high-grade advertising support as on Palmolive?

Remember, we create the demand. Every Palmolive advertisement is seen by 20 million people—and all these people are potential purchasers. But unless Palmolive is "In Stock," the business may go to the other man—to your loss. Why not get in touch, NOW?

THE PALMOLIVE COMPANY,
13-14 GT. SUTTON ST., LONDON, E.C.1.



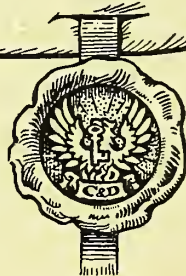
Facsimiles of two only of the many attention-compelling, high-grade Palmolive newspaper advertisements. In each advertisement the reader is told to come to you for supplies of Palmolive.



PALMOLIVE

£500 Free Indemnity for Chemists

THE PROPRIETORS OF THE CHEMIST AND DRUGGIST have entered into an Agreement with The Ocean Accident and Guarantee Corporation, Ltd., of 36-44 Moorgate Street, London, E.C. 2, by which that Corporation will indemnify each annual subscriber to THE CHEMIST AND DRUGGIST, who is eligible, up to £500 against legal liability to pay for :—



- (a) Accidental bodily injury to or illness or death of any human being not in the service of or related to the Insured nor claiming compensation from the Insured under any Workmen's Compensation Act
- (b) Accidental bodily injury to or illness or death of any animal not belonging to or in the charge or under the control of the Insured or any servant or agent of the Insured
- (c) Accidental damage to property not belonging to or in the charge or under the control of the Insured or any servant or agent of the Insured

Caused by an error committed at premises to which the insurance applies by the Insured or by any person in the service of the Insured in :—

- (1) Compounding any medicine or selling by retail only any article usually sold by Chemists or Druggists.
- (2) Sight testing in ordinary course of business or selling by retail only spectacles or eyeglasses.

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- (a) pharmaceutical chemists or chemists and druggists keeping open shop for the sale of poisons in accordance with the provisions of the Pharmacy Act 1868, as amended by the Poisons and Pharmacy Act 1908; or
 - (b) executors, administrators or trustees of pharmaceutical chemists or chemists and druggists carrying on the business of chemists in accordance with the provisions of the Pharmacy Act 1868, as amended by the Poisons and Pharmacy Act 1908; or
 - (c) bodies corporate, and in Scotland firms or partnerships, carrying on the business of chemists in accordance with the provisions of the Poisons and Pharmacy Act 1908; or
- if in Ireland, are

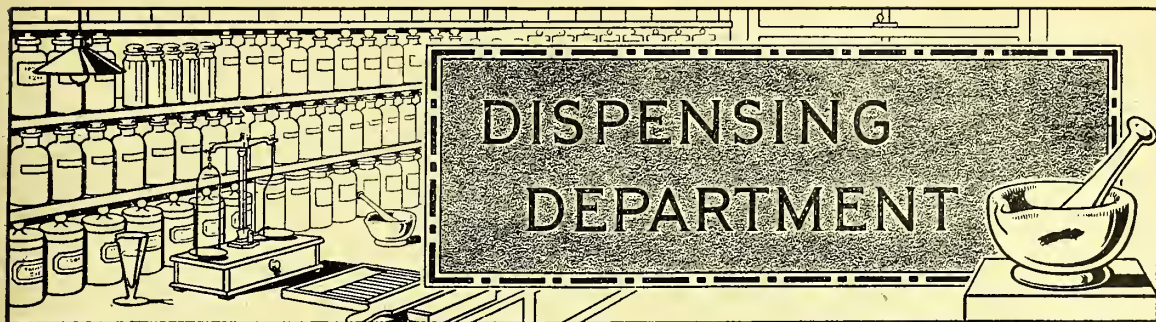
pharmaceutical chemists keeping open shop for dispensing and for the sale of poisons, or are chemists and druggists or registered druggists keeping open shop for the sale of poisons in accordance with the provisions of the Pharmacy Act (Ireland) 1875, or the Pharmacy Act (Ireland) 1875 Amendment Act 1890, as amended by the Poisons and Pharmacy Act 1908.

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Business Changes

FAIRY DYES, LTD., have removed to 37 Glassford Street, Glasgow, to which all communications should be addressed.

MR. PETER LEECH, chemist and druggist, Helsby, has taken into partnership Mr. Edward V. Abraham, chemist and druggist.

J. L. LYON & Co., LTD., 1 Crutched Friars, London, E.C. 3, have been appointed sole agents for England and France of Entcho Ch. Bagaroff & Co., Sofia.

ASCOTT'S PHARMACIES, LTD., London, N.W., have opened a branch at 58 Boston Road, Hanwell, W. 7, and will shortly open another at 167 Lordship Lane, S.E. 22.

P. SAMUELSON & Co., 27 Mincing Lane, London, E.C. 3, have been appointed sole agents for the United Kingdom for M. Naef & Co., essential-oil merchants and chemical manufacturers, Geneva, Switzerland.

AMAMI, LTD., have removed to larger premises at 4-10 Chenes Street, Tottenham Court Road, London, W.C. 1. The occasion was signalled by an informal lunch at which about sixty employees and friends were present, with Mr. R. H. Brittain in the chair.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

B.P. in Chinese

Our Parliamentary Correspondent learns that, as the result of representations recently made by the British Chamber of Commerce at Shanghai, wholesale druggists in this country are being approached in regard to the suggestion that the British Pharmacopoeia should be translated into the Chinese language. The General Medical Council, the owner of the copyright, is stated to be considering the matter. The urgency of the question, so far as it affects the drug-trade in this country, is due to the fact that the United States Pharmacopoeia is being translated into Chinese, and would be adopted by all American hospitals in China. Efforts are also being made to secure its recognition as the official Pharmacopoeia for the whole of the Chinese Empire. An edition in Spanish is already in circulation in South America.

Society of Apothecaries of London

At the Assistants' examination, which commenced on October 24, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:

Akehurst, K.	Heap, D. M.	Mulvany, K. B.
Alston, D. K.	Hewkley, I. A.	Nuttall, D. H.
Anley, T. R.	Hill, P. M. B.	Owens, E.
Baker, E. E.	Hillyers, G. V. L.	Perry, D. G.
Bennison, M.	Hirst, O. E. I.	Price, A. E.
Bentley, E. M.	Holyoake, M.	Render, R. E.
Boullin, A. M.	Hooper, G. E.	Robinson, I.
Brown, M.	Housden, E. L.	Seabrook, K. E.
Cariss, M. A.	Hulme, M. L. V.	Scott, E. K.
Carter, E.	Jenkins, S. M.	Selvey, K. S.
Chalk, C. H.	Jessop, I. A.	Smith, I. M.
Clark, B.	Jones, D. G.	Spindley, L. B.
Constance, M. E.	Jones, E. C.	Sweeney, I. F.
Cutting, M.	Kerr, J. St. C.	Tanenby, M. S.
Davis, F. E.	Langham, E. A.	Taylor, E.
Dean, J.	Lea, N.	Thomas, A. D.
Dixon, W.	Lewis, T. F.	Tonge, N.
Gale, M. E.	Liston, E. M.	Walker, T. M. A.
Gall, C.	McKee, A. D.	White, E. M.
Golding, M. E.	Mann, F. G.	White, M. G.
Goldman, D. I.	Mathews, P. E.	Wilkinson, E. G.
Grant, D. K.	Maxwell, G. E. J.	Wilson, D. S.
Gunson, V. M.	Mellows, H. E.	Witten, T. M.
Hamilton, A. M.	Miller, F. T.	Wright, G. E.
Hardy, E. M.	Motson, H.	Wykes, E. M.

Philip's "Standard" Retail Price List

The following are among the alterations in the November issue of Philip's "Standard" Retail Price List:

Ac. acet. glac., 3d. oz.; ac. salicyl., 4½d. oz.; ac. tannic., 1s. oz.; ammon. ichthyosulph., 10d. oz.; ammon. nit. coml., 1s. 9d. lb.; anthem. flor. exot., 4d. oz.; capsici pulv., No. 1, 7d. oz.; chlorof. c. camph., 2½d. dr.; dec. sarsae co. conc., 7d. oz.; lithii carb., 6d. dr.; ol. lavand., 8d. dr.; sod. salicyl., 7d. oz.; vin. ferri, 6d. oz.; quinine wine, 3s. 3d. bot.; saccharin tabs., 100, 1s. 4½d.

A prefatory note contains the following passage: "At the request of many of my friends I decided to rewrite the whole [tables], and besides bringing the remuneration more up to the present-day requirements, I have further extended the system. I still adhere to my former opinion that dispensing-fees should be something more than a labour charge at so much per hour. My system differs from the 'charge per hour method' in that it takes, and always has taken, duration of medication into consideration; in other words, my system affords a genuine professional fee."

Central Pharmacy Club

At a recent meeting of the executive committee of the Progressive Pharmacy Club, it was decided to alter the name to Central Pharmacy Club, and to do everything possible to make it clear that the Club exists entirely for social purposes. Though the membership has been

well maintained, new members are always welcome; and it was accordingly decided to admit ladies of members' families at a reduced subscription of 10s. 6d. per annum, the full membership fee being 21s. for town members and 12s. 6d. for country members. Mr. A. R. Keith was unanimously elected *President* for the ensuing year, Mr. Herbert Skinner *Secretary*, Mr. H. G. Mumford *Financial Secretary*, Mr. H. E. Clement *Treasurer*, and Mr. Amos Jones *Social Secretary*. A new social committee was appointed. At the conclusion of the business Mr. John Humphrey, who has acted as secretary for the past four years, was cordially thanked for his services and was elected *Vice-President* of the Club. All applications for membership should be addressed to Mr. H. G. Mumford, "Woodlands," Linden Road, West Green, London, N.

An Advertiser's View of the Poster

The current issue of "Bubbles," the house-organ of A. & F. Pears, Ltd., contains a striking article on poster advertising, written by Mr. S. Bernard Smith (advertising manager), who considers that by this method it is scarcely possible for a manufacturer to do more than impress the name of his brand and the character of his goods on possible buyers. The bulk of the poster advertising in this country at the present time is useless, Mr. Smith thinks, and he contends that the value of the poster has greatly deteriorated. This is not due to the posters themselves, but is the fault of the advertiser and the bill-poster. Under the conditions existing to-day bill-posting is expensive to a degree, and it is problematical whether it is worth doing at all. The ordinary hoarding repels by its sordid untidiness. Other contributors to an attractive number include Lord Leverhulme, Sir Herbert Morgan, Mr. E. V. Salaman, and Mr. W. E. Böoth.

Birmingham

It is understood that the "suggestion box" of Cadbury Brothers, Ltd., has had deposited in it as many as 300 items in one day.

Colonel W. F. Wyley, D.L., P.G.D.Eng., Prov. G. Master of Warwickshire, presided at a Masonic meeting in the Town Hall on October 31.

It is estimated that each student of Birmingham University draws upon its funds to the extent of £40 per annum. Of the 1,700 students, 650 are "freshmen."

A lecture on anastigmatic lenses was recently given before the Small Heath Photographic Society by a representative of Aldis Bros., lens manufacturers, Sparkhill.

A man named Savage was accidentally knocked down by a motor-lorry belonging to Southall Bros. & Barclay, Ltd., at Sutton Coldfield, on October 26, and was fatally injured.

Mr. M. Goodman, chemist and druggist, has acquired the business of Mr. E. Wright, chemist and druggist, 162 Aston Road. The shop has been refitted and entirely restocked.

The local chamber of commerce decided, at a meeting held on October 31, to urge the Postmaster-General to reinstate in Birmingham a postal collection which will enable letters to be delivered in London the same day.

At Birmingham Police Court, on October 27, Frank F. Norris, clerk, was sentenced to six months' hard labour for stealing sums of money belonging to his employers. B. C. Tipper & Son, manufacturing chemists, Balsall Heath.

In our note on the examination at the Technical School in connection with the Pharmaceutical Society's preparatory course prize scheme (*C. & D.*, October 22, p. 42), it should have been stated that twenty-three candidates entered.

Mr. J. C. Woodward, the veteran teacher of chemistry, has presented to the Birmingham Reference Library a series of forty-two old standard scientific books. Mr. Woodward refers to the library as "one of the triumphs of Birmingham."

There was a good attendance at the opening meeting of the Birmingham School of Pharmacy, the President of the local Association, Mr. J. W. Atkinson, being sup-

ported by Messrs. A. W. Gerrard, H. Berry, F. J. Gibson, J.P., and J. Rushbrook. At the conclusion of the meeting the visitors inspected the pharmacy department (see p. 63).

A verdict of "Death by misadventure" was given at an inquest held, on November 1, on the body of Dr. David S. Harvey, of the staff of the Ministry of Pensions Hospital, Hollymoor, Birmingham. The evidence showed that Dr. Harvey had taken chloral and opium—1 gr. of the latter, according to his own account—for insomnia, and that death was due to narcotic poisoning.

The following is an extract from a letter recently addressed to a local manufacturing house:

One thing to be put before your consideration is perhaps to get your goods manufactured here in Germany on account of the cheaper labour. We could arrange this for you and the goods could be stamped with your trade-mark, just as you would like it, so that they would appear to your customers as your own make. Everything could be made in sizes, weights, etc., exactly to your instructions. In fact, we can tell you that this is being done by other British factories to their great advantage, since a long time, and perhaps you can see your way to try this also?

Liverpool

Window-displays of proprietary articles are steadily spreading.

The propaganda in connection with the Retail Pharmacists' Union is a subject of much discussion throughout the trade.

May, Roberts & Co., Ltd., druggists' sundriesmen, 7-13 Clerkenwell Road, London, E.C. 1, and 16 Westmoreland Street, Dublin, have acquired premises in Liverpool for the purpose of opening a branch.

Francis Newbery & Sons, Ltd., have appointed Messrs. Greening & Lloyd, 20 Pearl Buildings, St. John's Lane, as their representatives for Lancashire, Cheshire, Westmorland, and Cumberland.

Mrs. William P. Evans, wife of the chairman of Evans Sons Lescher & Webb, Ltd., and an active participant in the work of the ladies' Committee at last year's meeting of the British Pharmaceutical Conference, has recently undergone a serious operation. We are glad to learn that, after being in a nursing home for over a month, Mrs. Evans has returned to her own house, and is making progress towards recovery.

Mr. John H. Robinson, who has just returned to Exchange Station Pharmacy after three weeks' visit to four Southern counties and a call in London, sums up his impressions thus: he was surprised to see the increase in the numbers of female assistants in pharmacies; he never met so many commercial travellers; and he was pleased to note the extra keenness of the wholesalers. It was good to find the wholesale houses, with barely an exception, ready to recognise the joint interests of the two branches of the trade.

Manchester

Courtaulds, Ltd., chemical manufacturers, Manchester, have opened a new factory at Nuneaton.

Some resentment is being felt over the strict enforcement of the Shops (Early Closing) Act in the district.

Four men were injured in an explosion at the dyeworks of Levinstein, Ltd., Lower Crumpsall, on November 2.

The fourth annual general meeting of the British Association of Chemists was held on October 29 in the Midland Hotel, Professor J. W. Hinchley in the chair. From the report of the council it appeared that during the year the membership of the Association had increased from 1,153 to 1,344. The formation of guilds within the Association, the establishment of an unemployment benefit fund, and the relations between the Association and the National Union of Scientific Workers were among other questions considered.

Miscellaneous

THEFT FROM A SHOP.—At Peterborough, on October 26, Grace Crowson was charged with stealing Oxo and a tin of health salts, of a total value of 3s. 9½d., from a branch of Boots, Ltd. Evidence pointing to drug-taking was given, and eventually the accused was bound over.

POISON-LICENCES GRANTED.—The Middlesex County Council has granted a licence under Section 2 of the Poisons and Pharmacy Act, 1908, to P. C. Gardener, trading as R. Ray & Co., Old Mills, Hounslow, and to B. R. Attenborough, an employee of Mr. Gardener.

FIRE.—An outbreak of fire, which occurred recently on the premises of William Pearce & Sons, Ltd. (which is amalgamated Spencer, Chapman & Messel, Ltd.), manufacturing chemists, Baltic Wharf, London, E. 14, was caused by a light being thrown down. The damage was not extensive.

BOYLE'S BURIAL-PLACE.—Writing to "The Observer" of October 29, Sir William Tilden remarks à propos of the bicentenary of St. Martin's-in-the-Fields Church, London, that Robert Boyle, the physicist and chemist, who died on December 30, 1691, was buried in the chancel of the former church. The church was pulled down to give place to the present structure, and no adequate record was kept of its graves and other memorials. Sir William has lately been making inquiries as to what became of them, but apparently without being able to add anything to our knowledge in the case of Boyle's tomb.

SHOPPING FESTIVALS.—The Blackburn shopping festival (*C. & D.*, October 22, p. 43) closed on October 29 with a trade pageant in which C. A. Critchley & Co., chemists, Mr. W. H. Grimshaw, chemist and druggist, The Flips Headache Co., Stotherts & Co., wholesale druggists, and Cupal, Ltd., took part. Among the pharmacists who obtained prizes for window-displays during the festival were (1) Mr. W. H. Grimshaw, (2) Mr. A. Dobson, and (3) Mr. G. McDiarmid, being awarded an engraving, silver medal, and diploma respectively.—During the Pontefract shopping week prizes for window-dressing, in the section open to pharmacists, were gained by (1) the staff of Boots, Ltd., (2) Mr. R. Cleave, (3) Mr. A. Collins.

Coming Events

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, November 7

Birmingham Pharmaceutical Association, Chamber of Commerce, at 3 P.M. Adjourned annual meeting.
Society of Chemical Industry (London Section), Rooms of the Chemical Society, Burlington House, Piccadilly, W., at 8 P.M. Mr. N. E. Rambush on "Laboratory Fuel Tests v. Practical Working Results of Producer Gas Process."

Tuesday, November 8

Cardiff Pharmacists' Association, Central Y.M.C.A., at 8.30 P.M. Meeting.
Ealing Pharmacists' Association, Eden's Restaurant, High Street, at 8.30 P.M. Mr. J. P. Gilmour on "The Journal—Present, Past, and Future."
North London Pharmaceutical Association, Cock Tavern, High-bury, at 8.15 P.M. Concert by the Islington Chemists. Ladies invited.

Wednesday, November 9

Birmingham Pharmaceutical Association, Imperial Hotel, at 8.30 P.M. Discussion on "The Dangerous Drugs Act Regulations."
Manchester Pharmaceutical Association, Council Chamber, Houldsworth Hall, Deansgate, at 8.30 P.M. Dr. A. L. Robinson M.B., M.A., Sc.B. (Dublin), on "The Proposed New 'Major' Subjects."

Pharmaceutical Society of Great Britain, Lecture Theatre, 17 Bloomsbury Square, London, W.C., at 8 P.M. Professor W. E. Dixon, M.D., F.R.S., of the Pharmacological Laboratories, Cambridge University, on "The Drug Habit."
Royal Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Mr. D. R. Wilson, M.A., secretary of the Industrial Fatigue Research Board, on "The Work of the Board."

Thursday, November 10

British Association of Display Men, National Cash Register Co.'s Theatre, Tottenham Court Road, London, W., at 6.45 P.M. Mr. S. Bernard Smith (advertising manager for A & F. Peers, Ltd.) on "The Relationship Between Window-dressing and Advertising."

Derby (Borough) Pharmaceutical Association, Unity Hall, at 8 P.M. Mr. Marfitt, Leicester, on "The Art of Window-display."

National Drug and Chemical Union (Retail Branch), Minerva Café, 144 High Holborn, London, W.C., at 7.30 P.M. Whist-drive. Tickets (including refreshments), 1s. 6d. each.

Irish News

Brevities

Mr. Denis Slattery, Ph.C., has taken over as a going concern the business of Mr. A. T. Bennett, Ph.C., High Street, Kilkenny.

At a case of drunkenness at Ballymena, alleged to be due to the drinking of methylated spirit, Mr. Huston Lancashire, J.P., Ph.C., who was on the bench, questioned the police on how they knew that the defendant had been drinking methylated spirit, and suggested that "poteen," according to rumour, was being sold in the town. The police said practically every case of drunkenness is due to methylated spirit. The defendant was fined 10s., and costs. At Enniskillen Police Court a similar charge was heard; defendant was fined 20s., and costs, the chairman stating that in future fines would be doubled.

Belfast

At the annual meeting of the Belfast Chamber of Trade, on October 28, Mr. J. C. Culbert, M.C.P.S.I., Conns-water, was re-elected an honorary secretary. Mr. James Tate, M.C.P.S.I., Royal Avenue, was elected to the executive.

Mr. H. F. Moore, M.P.S.I., Royal Avenue, Belfast, who was shot during disturbances in Belfast (*C. & D.*, September 10, p. 35), was able to leave the Royal Victoria Hospital a few days ago, and is now recuperating at his home in Bangor before resuming business.

The boycott of Belfast goods, which is still affecting the wholesale drug houses in Belfast, was discussed at a meeting of the Belfast Wholesale Merchants' and Manufacturers' Association on October 27, when a resolution was proposed calling on the Government to extend to traders full protection in the legitimate discharge of business, inasmuch as freedom of trade with many areas has ceased to exist through the illegal operation of what is known as the "Belfast Boycott," which is carried on by methods of violence and intimidation. The resolution noted with satisfaction that Mr. Lloyd George has promised protection for English traders whose goods are boycotted in Ireland, and claimed that the same protection be extended to Belfast traders. Mr. T. W. McMullan, M.P. (Thomas McMullan & Co., wholesale druggists), delivered one of the principal speeches. He said he doubted very much if the resolution would do much good in the meantime, but he would, however, support the sending of the resolution to Mr. Lloyd George. He thought they should use every effort to get protection for peaceful traders. They had a prospect of relief in the six counties as soon as the Government functions were taken over, but they had little hope in the meantime that the boycott would be lifted in the South. It seemed to him that it is getting closer, and that those responsible for it are determined to make it impossible for the Belfast trader to carry on business successfully. In that way they hoped to induce him to throw in his lot with the forces of the South. The resolution was passed.

Wills

MR. ROBERT FRANCIS ROPER, pharmaceutical chemist and dentist, Lower Standary, Elburton, Devon, who died on September 25, left estate of the gross value of £8,555 17s. 9d., of which £1,974 5s. 10d. is net personalty.

MR. REGINALD ARTHUR BLANCHFORD, chemist and druggist and optician, 68 Northfield Avenue, West Ealing, London, W., who died on July 24, left estate of the gross value of £2,484 8s. 9d., of which £2,448 2s. is net personalty. Probate of his will has been granted to his widow, Mrs. Miriam Elizabeth Blanchford, of the same address, and his brother, Mr. Merlin Blanchford.

The Newcastle Chamber of Commerce has decided to appoint a committee to bring pressure to bear on the North-Eastern Railway Co. in the matter of railway rates.

Scottish News

Brevities

There has been an invasion of commercial travellers in some districts of late. One pharmacist shook hands with eleven "ambassadors" during a single morning.

We have been requested to announce that the business of Farie & Co., chemists, Bridge of Allan, referred to in last week's issue (p. 48), is to be carried on as heretofore.

Burgoyne, Burbidges & Co., Ltd., manufacturing chemists, London, E. 6, have appointed Mr. Charles R. Brown, 9 Edina Street, Edinburgh, as their sole representative in Scotland.

The following pharmacists were appointed office-bearers at the annual general meeting of the Kirkcaldy Photographic Society on October 26: Mr. D. Storrar, hon. President; Mr. Charles Stewart, treasurer; and Mr. J. G. Low, a member of the council.

Some towns know how to grasp opportunities. A number of war vessels arrived off a certain town, recently, on the eve of the autumn holiday, which, in view of prospective business, was immediately postponed. The following morning one of the pharmacies disposed of goods to the value of nearly £100 to the visitors.

The business committee of the Scottish Chamber of Agriculture, at a meeting on October 29, recommended that the Board of Agriculture should set aside a substantial sum out of the research fund, with a view to the effectual eradication of bracken. The chairman pointed out that this was in line with Sir Robert Greig's recent suggestion that a prize of about £5,000 should be offered for getting rid of this trouble. The committee's recommendation was approved.

Edinburgh

Mr. G. Radford, successor to the late Mr. Terry as representative of Bovril, Ltd., was formerly with Raimes, Clark & Co., Ltd., and Inman, Ltd.

The death occurred on October 26 of Mr. Peter Morison, father of the Lord Advocate, aged eighty-five. Mr. Morison was for over half a century closely associated with the Pharmaceutical Society and the Scottish Trade Protection Society as legal adviser.

Glasgow

The death occurred at Stirling, recently, of Mrs. Murdoch, widow of the late Mr. George Murdoch, Ph.C., formerly in business in Glasgow.

Among the exhibits at the recent meeting of the Andersonian Naturalists' Society were loofah gourd, fruits of cacao and vanilla, flower of pepper plant, and specimens of foliage and fruit capsules of several varieties of Australian eucalyptus.

Claims against the estate of the late Mr. David Watson, chemist and druggist, Shawlands, whose death was announced in last week's issue (p. 57), should be lodged with Maxwell, Hodgson & Co., solicitors, St. Vincent Street, without delay.

At a meeting of the Glasgow section of the Society of Chemical Industry, on October 27, a paper, "Leaves from the Notebook of a Research Chemist," was read by Mr. R. F. Stewart, who dealt with chemical research in relation to industry, and compared the position of the academic worker with that of the industrial chemist. The subject of emulsions, illustrated by such liquids as milk and soap solutions, was referred to at length, and the scientific principles underlying their study were elucidated. The problem for chemists of the future, said Mr. Stewart, was to convert the "white man's grave" into the "white man's garden," a solution earnestly desired.

A RESOLUTION to form a Sheffield branch of the National Union of Manufacturers was unanimously passed at a meeting in the Cutlers' Hall on November 2, Mr. G. Terrell, M.P., President of the Union, who was in the chair, said that nearly 2,000 manufacturing firms were members of the Union, and of this number forty-five belonged to Sheffield.

South African News

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa

The Union

STOCK DIP REGULATIONS.—The "Government Gazette" of September 9 contains copy of Government Notification No. 1451, regulating the sale of stock dips throughout the Union, with effect from January 1, 1922. The regulations issued with the notification provide that every importer of a stock dip, and every proprietor or manufacturer of a stock dip made in the Union, shall register such dip with the Department of Agriculture in the manner specified in the Regulations, and that no person shall sell or offer for sale any stock dip not so registered. The form of application for registration requires, *inter alia*, the composition of the stock dip to be stated, specifying the name of each and every ingredient for which efficacy is claimed, together with the percentage amount in which it is present, and the form in which it occurs.

Cape Province Pharmacy Board

A GENERAL meeting of the Cape Province Pharmacy Board was held in the Board Room, Cape Town, recently. There were present Mr. A. Walsh (chairman), Dr. W. Darley Hartley, Messrs. G. R. Cleghorn, J. Parry, G. Darroll, and the secretary. A letter was read from the Colonial Medical Council, intimating that as Dr. Murray had resigned his seat on the Council Dr. W. Darley Hartley had been temporarily appointed as the Council's representative on the Board. On the motion of Mr. Parry, seconded by Mr. Darroll, it was unanimously resolved that there should be conveyed to Dr. Murray an expression of the deep regret of the Board that his long and valued association with the Board had terminated. The balance-sheet for the year ended June 30, 1921, was read and adopted. A letter from the Secretary for Public Health was read regarding the application of Messrs. Sonne and Vierkorn for examination, and it was resolved to reply that the Board is unable to go beyond the terms of its letter of April 24, 1921, except that the case of German-speaking candidates can be met on the lines suggested by the Secretary for South-West Africa—viz., by conducting the examination in the German language through the medium of translators (who would be nominated by the Board) provided the candidates themselves met the cost. A letter from the Secretary for Public Health on the subject of placing Lysol in Division II. of the Poisons Schedule, as recommended in terms of a previous resolution, was read, and after discussion it was resolved to reply that cresylic acid is a homologue of carbolic acid, and should not be placed in a separate paragraph of the schedule, as now recommended by the Health Department, but to bring the clause as nearly as possible into conformity with that suggested in the Secretary's letter, the Board further resolves to approve of a clause in the following terms:

Carbolic acid and all preparations of carbolic acid and its homologues containing 3 or more per cent. of phenols. This includes cresylic acid and all preparations containing cresylic acid, whether described as such, or as "Lysol," or by any other trade name, mark, or designation.

While the Board is not in favour of specifically including any article in the schedule under its registered trade-name, it will not raise objection to the reference to Lysol provided it is embodied in the manner indicated above. The reply of the Attorney-General to the Board's letter in terms of a previous resolution on the subject of the sale of poisonous articles by general dealers in Calcutta was read and recorded. A letter from the Pharmaceutical Society of Great Britain asking for particulars of the Board's qualifying examination in view of proposed reciprocity within the British Empire was read, and the advance reply thereto confirmed and recorded. Applications for registration by Messrs. R. S. Lowden, A. C. Cook, and S. L. V. George were approved.

French News

(From the "C. & D." Paris Correspondent.)

LA BASSÉE, the well-known battle-site, has been "adopted" by the town of Tours; and when the General Association of French Pharmacists held its annual meeting in the latter town a collection was made on behalf of the stricken area.

M. JAVILLIER, in his opening address on "The Objects of Biological Chemistry," pointed out the value of the science in "industries utilising living organisms" such as the manufacture of wine, beer, vinegar, tanning, tobacco, etc., the production of acetone during the war, etc.

INVESTIGATION OF CHLOROPHYLL.—Scientific communications from Bolshevik Russia are rare, but M. Gaston Bonnier read to the Academy of Sciences recently a letter from M. Lubimenko, Petrograd, who states that (by the use of water only) he has succeeded in extracting the whole of the chlorophyll from a leaf, and the spectrum of absorption is identical with that of a living leaf.

THE "PURE HONEY" ACT, passed in July, now applies to French retailers' stock, the delay of three months accorded having expired on October 15. This provides that the term "honey" shall be exclusively reserved to the "natural product of bees," and such expressions as "fancy honey" ("miel de fantaisie"), etc., are forbidden. Vendors selling anything but the pure article under the designation "honey" will be prosecuted under the Adulteration Act.

PRIVILEGE FOR DEMOBILISED STUDENTS.—The widow or heir of a deceased pharmacist is allowed by French law to conduct the business with a manager for a limited period, and the National Confederation of French Students recently petitioned the Minister of Public Instruction and the Minister of Hygiene to extend this privilege to demobilised students who are pharmacists' sons, whose studies were interrupted by mobilisation. The Minister of Hygiene is drafting a Bill on the matter, which will, in due course, be submitted to the Ministry of Public Instruction.

PASTEUR MONUMENT FOR STRASBOURG.—It has been decided to raise a monument to Pasteur at Strasbourg, where the illustrious chemist was nominated Professor of Chemistry in 1852. Eight statues of Pasteur already exist in France—at Dôle (his birthplace), Arbois (his home), Lille, Paris, Marnes la Coquette (not far from the suburban branch of the famous Institute), Alais (a centre of silkworm industry), and at Melun. Many relics of the savant are preserved in the Arbois residence (a sort of family museum); others at the house in Versailles inhabited by M. and Mme. Valléry-Radot.

TRADE PROFITS were discussed at the recent meeting of the French Pharmacists' General Association in view of the legislation on taxation. M. Lécuyer said that in Paris profits varied from about 7 to 29 per cent.; about 20 per cent. would be a fair average. The authorities, he added, said that the Association had given too high a figure; if it had quoted 10 to 20 per cent. it would, perhaps, have been accepted. M. Joly said the figures were not too high for 1919, the year to which they applied. The President agreed, and added that the authorities (Director of Excise, etc.) had first proposed 40 per cent., and only came down to 35 per cent. after much pressure.

MONEY FOR RESEARCH.—The "Petit Parisien" has interviewed a number of leading French savants on the endowment of research. M. Sabatier, the 1912 Nobel prizeman for chemistry, states that half-a-million francs is necessary to complete the research laboratories at the University of Toulouse. M. Le Chatelier, of the Paris Faculty of Sciences, recognises the need of economy, but deplores the fact that the scientist has not the consideration and the social status of bygone days. M. d'Arsinval, of the College of France, admits that if he had had to depend on meagre Government credits he would not have made many discoveries. He reminded the interviewer that Moissan sought industrial co-operation to construct his famous electric furnace. The State could not readily find the money required, but manufac-

turing firms, if properly approached, proved valuable allies.

EIGHT HOURS' DAY ACT.—The decree of the Minister of Labour on the application of the Eight Hours' Day Act in retail pharmacies has been published in the "Journal Officiel." (This applies only to places over 5,000 inhabitants; a later decree will deal with smaller towns and villages.) Nine hours and a half is fixed as the working day, but exactly what "duration of presence" will be considered to represent 9½ hours' actual "work" will be decided by regulations which will be published between now and July 1923. The idea is evidently to give local associations of employers and employed time to discuss the question, and, if possible, come to some working agreement. The allowance of one extra hour per day for men employed in cleaning premises, packing, and delivery is admitted in principle. Temporary exceptions are foreshadowed for accidents, in cases of epidemics, urgent work, etc. In the last case overtime must be paid.

DANGEROUS DRUGS ACT.—A wholesale druggist recently was involved in connection with a breach of the French Dangerous Drugs Act in somewhat novel fashion. A customer ordered rather a large quantity of cocaine to post abroad. Forgetting that cocaine is not allowed to be thus forwarded direct by post, he sent one of his clerks to accompany the purchaser to the post office. The "client" had accordingly time to substitute a little parcel of pebbles for cocaine. He was caught, however, by the police not long after, and the wholesale druggist had, of course, to satisfy the Courts as to his good faith, and to explain his forgetfulness of the fact that cocaine for export must be presented to the Custom House authorities before it passes through the post. The *modus operandi* is to open the packet and show its contents to the Customs official. It can then be tied up and sealed, but a Customs employee accompanies its bearer to the post office, where he hands the sender an official paper once the packet is despatched.

THE "VINEGAR OF THE FOUR THIEVES," a disinfectant, appeared in the Codex until 1908. M. Edouard Boinet informed the Academy of Medicine that it dated from the Great Plague of Marseilles in 1720-21. While thousands of victims were dying daily, a band of four robbers roamed from one stricken house to another, laying hands on money or portable valuables, and not hesitating to kill any who attempted to resist. Caught and sentenced, they offered at the foot of the scaffold to reveal, if their lives were spared, the secret of their own immunity from the prevailing epidemic. Their petition was granted, and they handed over to the sheriff the following recipe: Three pints of vinegar with handfuls of various aromatic herbs and a few drams of camphor, to be rubbed on the exposed parts of the skin. M. Bouvet (doctor in pharmacy), however, produced an advertisement, which appeared in 1721 in the "Mercure de France," stating that the formula of the Vinegar of the Four Thieves thus offered to the public was "extracted from the archives of the Parliament of Toulouse." It was thus older than 1721. The plague seems to have raged at Toulouse nearly a hundred years before that date.

REPORT ON CODEX REVISION.—The tenth sub-committee of the Paris Society of Pharmacy on Codex revision has issued its report on species and gargles. It recommends that the vulnerary species at present figuring in the Codex be omitted, and calming species (*species mitigatoria*) added; having the following formula:

Poppy heads (without seeds), broken	
up fine	10 grams
Marshmallow root, cut up fine	20 grams
Mix. Prepare extemporaneously.	

As to gargles, the committee recommends that the words "make up to 300 grams with distilled water" be added to the directions for preparing the astringent gargle and the borax gargle. Two new gargles are proposed: *Gargarisma mitigorium*—10 grams of calming herbs boiled for ten minutes in 300 grams of water; and *gargarisma hydrogenii peroxydati*—30 grams of peroxide to 270 grams of water.

Colonial and Foreign News

GOVERNMENT IMPORTS IN FINLAND.—M. Helminen, Finnish Minister for Home Affairs, has under consideration the establishment of a central office for the importation of medicines for Government institutions. The question has been discussed with the Board of Medical Directors and the military pharmacists. Some of the State supplies are derived from the pharmacy attached to the University of Helsingfors.

GERMAN ASSOCIATION IN RIGA.—That the Germans have not abandoned all hopes of retaining a preponderant influence in the new Baltic States is evidenced by the recent formation of a German association in Riga. The latter, known as the Herder Institute, has opened a high school destined to form the nucleus of a future German university in Riga. It already possesses nineteen teachers, and numbers about 400 students.

LEGISLATION IN FINLAND.—As a result of recent legislation Finnish pharmacy owners declared that they would no longer be able to maintain a day-and-night service and also keep open on Sundays and on holidays. When, however, the Government promised to regulate labour conditions in pharmacies, the owners decided to continue a day-and-night service, and the Ministry for Social Affairs is now preparing a Bill to deal with the problem.

GERMAN PHARMACIES AND MUNICIPALISATION.—As a result of the differences, from the legal aspect, of pharmacy concessions in the various States in Germany, pharmacies have hitherto been exempted from municipalisation, it being proposed to deal with the pharmacies throughout the whole of the country by means of special legislation. It is stated, however, that the Minister for Home Affairs now proposes to consider reorganising pharmacy concessions in the near future.

HIGH COST OF MEDICINES.—According to the "Czechoslovak Apotheker-Zeitung" (No. 49, 1921), in spite of the high value of the new republic's currency the average cost of prescriptions has risen from 1.40 cr. in 1914 to 9.65 cr. in 1921 nearly sevenfold. The greatest increase is in prescriptions for 10 grams of ext. ergotæ liq., in a drop bottle, for which 0.85 cr. was charged in 1914, and which now costs 21.30 cr., twenty-five times more. Tariff charges for compounding have in no case been raised more than six times the tariff of 1914, and are usually much less.

EMPLOYERS AND EMPLOYEES STRIKE.—Poland, or more particularly the formerly Prussian territory of Posen, now incorporated in the new republic, can boast of having provided the world with a new form of strike, in which both employers and employees made common cause. As a protest against the Government's neglect to increase the charges of the official drug-tariff in keeping with the ever-increasing cost of living, a very large number of pharmacies decided to close. Only a small number remained open, and in these the owners refused to supply medicines for which the tariff charge was lower than the actual purchase price. The Polish Government has now decreed an increase of 150 per cent. in the official charges for all drugs, while the fees for compounding prescriptions are to be advanced by 100 per cent.

DRAWBACK ON PERFUMERY IN AUSTRALIA.—A recent decision of the Commonwealth Department of Trade and Customs relating to the assessment for Customs duty of perfumery exported to Australia states that, in future, in cases where drawback of excise duty paid on the spirit content of such perfumery is obtained or obtainable, the actual amount of such excise duty will be allowed as a deduction from the fair market value for home consumption in the country of export at date of shipment to Australia. The Department points out that it will, of course, be necessary for exporters to show on invoices the true domestic value of the perfumery, excise duty paid, in the country of export, in accordance with the Commonwealth Customs Regulations, together with a statement of the actual amount of excise duty included therein.

Bankruptcy Reports

Re The Keene Co., 52 Gray's Inn Road, London, W.C., chemical merchants. Under a receiving order made at the London Bankruptcy Court in this case, the first meeting of creditors was held on November 1 before Mr. F. T. Garton, Official Receiver. Having dealt with the proofs of debt, the chairman reported that Mr. Irving Alexander Keene had attended under the receiving order and had stated that the Keene Co. was established twenty-seven years ago by him and his brother in New York. Two years later he came to London and opened a branch at 26 High Holborn, and both branches had been continued to date. The London branch was removed after fifteen years to 75 High Holborn, and seven years ago to the present address. In 1917 or 1918 his brother expressed the wish to retire from the business, and a dissolution of partnership was duly gazetted. No account was taken, but he (debtor) agreed to pay his brother a lump sum in instalments, and had done so. He further agreed to pay him £325 a year for life. The business at that time was prosperous and solvent. Debtor continued the business alone, and had spent the greater part of the time since the dissolution in London, leaving the New York branch under management. He was successful until the armistice, at which time he held considerable stocks, and subsequently bought stock at high prices, which had depreciated in value. He did not agree, however, that his present position was entirely due to losses in trading, but more particularly to an unfortunate transaction with a friend who was the director of an insurance company. In March 1919 this gentleman requested him to make an application for 2,500 £1 shares in the insurance company, which he did. His friend paid the purchase price and received the shares, the debtor receiving no consideration whatever for the transaction. Later on his friend requested him to make a similar application for another 2,500 shares. He did not receive any notice of allotment, and heard nothing more until his friend and another person were arrested for fraud and forgery. They were convicted and sentenced to five years' imprisonment. In May last the insurance company made a demand against the debtor for 15s. a share, the balance of the purchase price of 2,500 shares. They obtained judgment two months ago, but had not since taken any further action. The claim of the petitioning creditors (Wm. Adolph & Co., Ltd.) was for goods supplied, which they contended were not up to standard. They brought an action against the debtor and recovered judgment for £1,300. The goods in question were supplied to the debtor by a Manchester firm, against whom he in turn had begun a similar action, which had not yet been brought to trial. No statement of affairs had yet been lodged. The debtor said that no liabilities were outstanding in the New York business, while his liabilities in England amounted to £8,000, of which £2,000 was due to the insurance company and £2,400 to relatives for cash advanced. The assets were, roughly, valued at between £2,000 and £3,000, and included stock (at cost, £1,500) estimated to produce £350; book debts, £400; and claims for damages, £1,300. The debtor was the proprietor of Keene's Corn Cure, Keene's Cold Cure, and Keene's Charco Pepsine Tablets, the secret of which preparations was known only to himself and his brother. The business was still being carried on, but the only contract at present outstanding was for the supply of goods to the Indian Government. The chairman announced that he had completed the Indian contract and had executed some mail orders for cash. The debtor's solicitor asked for an adjournment of the meeting to enable his client to submit a proposal. A brother of the debtor was returning from Singapore in six weeks' time, and would doubtless assist him. In the course of a discussion which followed, the debtor said he would give his services for a small subsistence allowance in order to keep the business going if the creditors would consent to an adjournment. Eventually Mr. Stanley Parkin Booth, accountant, was elected as trustee to wind up the estate in bankruptcy, assisted by a committee of inspection.

Legal Reports

Chemical Deal Dispute.—In the Mayor's and City of London Court, on October 31, Mr. Edward F. Arnold, Holland Road, Westcliff, claimed £80 against Mr. Pierre Marcotty, 129 Cannon Street, London, money lent by Sidney Fleming, 47 Mark Lane, E.C., to the defendant. Plaintiff's case was that in December last Marcotty owed Fleming £180. Fleming owed plaintiff also £180. The three met together and they agreed that instead of Marcotty paying Fleming and Fleming paying the plaintiff, the money should be paid direct by Marcotty to Arnold. The money was to be paid at the rate of £20 per month, but as nothing was paid plaintiff now brought his action. The first defence was that the document written by Marcotty was a deed, and that as it was not under seal it was not binding upon the defendant. Mr. Arnold, in his evidence, said the arrangement relied upon was carried out in December, and an I.O.U. was given him by Fleming in March, but it was dated for December. Fleming was now at Prague. Fleming used to carry on business as a chemical manufacturer at 47 Mark Lane. Marcotty said he was defending the action because Fleming owed him money for chemical transactions they had together, and that was why he was not paying the plaintiff. Fleming had received certain chemicals in a joint transaction, and had not let him (defendant) know anything about it. Judge Jackson adjourned the case.

The Value of a Site.—Mr. J. D. Wallis, Official Arbitrator under the Acquisition of Land (Assessment of Compensation) Act, 1919, sitting recently at the Town Hall, Southport, heard a claim by Mr. J. R. Slater and Mr. C. R. Whittall, as executors of the late Mr. Hugh Gill, against the Borough of Southport, concerning the compulsory acquisition of the leasehold interest of 383 Lord Street. Mr. Kelley, for the claimants, said that Mr. Gill, who died on June 4, 1911, held the property on lease for a term of ninety-nine years from June 1, 1859. The premises consisted of a shop occupied by Boots, Ltd., and they had a sub-lease with four years to run. The ground rent was £3, and Messrs. Boots had paid a rent of £300 a year since 1896. Negotiations had been in progress with the Corporation from time to time, and on August 11, 1921, they offered £7,200 for the property, but this was refused. Mr. W. K. Ball, auctioneer and land agent, giving evidence, stated that he had been in touch with the sales in Lord Street during the last ten years. The property in question was in the best position in Southport; his valuation amounted to £9,750. Adjoining property had been bought by the Corporation at £50 a yard. The letting value of the premises to-day was £750. The witness gave instances of shops which had changed hands during the last four or five years, and of increased rentals obtained. Mr. Herbert Nuttall, district Inland Revenue valuer, who gave evidence on behalf of the Corporation, said he knew the property well, and agreed that this was the best shopping centre of Southport. His valuation amounted to £7,200, and was based upon an improved letting value of £575 a year for thirty-three years after the expiration of the lease to Messrs. Boots. The Official Arbitrator's award was that the acquiring authority is to pay to the owners of the interest the sum of £7,802, with costs.

Carbolic-Acid Contract.—In the King's Bench Division, on October 26, Mr. Justice Rowlatt heard an action brought by May & Baker, Ltd., chemical merchants, Garden Wharf, London, S.W., against the Nijai Chemical Trading Co., Ltd., claiming damages for breach of contract for the sale of carbolic acid. Mr. R. A. Wright, K.C., said the contract was made in the latter part of 1918, the delay being due to the fact that defendants had said in 1919 and 1920 that they were sending someone over to settle the matter. On August 28, 1918, defendants asked plaintiffs, by cable from Japan, to make a firm offer for 25 tons of British carbolic acid, terms c.i.f. war risk covered, shipment per steamer during September. In reply, plaintiffs cabled offering 25 tons at price 2s. 1d. per lb., London, which was ultimately accepted by defendants, who wrote in October asking for the

shipment to be made as soon as possible. Plaintiffs thereupon purchased the acid from the manufacturers, but on November 23 defendants wrote asking that the contract be cancelled. Mr. Greenhill, export manager to the plaintiff company, gave evidence that in December 1918 they could buy for forward delivery for shipment in from two to three months. Before the Armistice, however, supplies were very difficult to obtain, and they only undertook delivery so soon as possible. There was no real price at the end of December 1918; sellers were only too willing to sell at the best price they could get. Witness thought 1s. to 1s. 3d. would be a fair price in December 1918 and January 1919. Afterwards the market dropped until the price went as low as 3½d. Plaintiffs had lost more than the £2,500 now claimed. Paul John Kuline, market clerk to Victor Blagdon & Co., also gave evidence as to prices, and Mr. Joseph McCaig, drug buyer for Evans Sons Lescher & Webb, Ltd., said that in December 1918 they had sold phenol at 1s. 2d. per lb. After that the market price fell away. Mr. Leek, K.C., for the defendants, maintained that the parties were never *ad idem*. Defendants thought they were buying on c.i.f. terms, while plaintiffs said that the terms were delivery London. His lordship, in giving judgment, said there was clearly a concluded contract on the terms alleged by the plaintiffs, and on the question of damages he thought the evidence called for the plaintiffs completely justified their claim. He therefore gave judgment for the plaintiffs for £2,566, with costs.

Lemonade-Powder Case.—At Kingston-on-Thames Police Court, on October 31, Mr. Alfred Higgs, J.P., in the chair, the Watford Manufacturing Co., Ltd., Watford, were summoned for applying a false trade description to goods purporting to be "Glass Lemon." The International Tea Co., Ltd., London, E., were summoned, under the Sale of Food and Drugs Acts, for selling "Glass Lemon" to the prejudice of the purchaser. Mr. T. R. Ubsell prosecuted on behalf of the Surrey County Council; Mr. Blanco White, barrister, appeared for the Watford Manufacturing Co.; and Sir Harold Smith, barrister, appeared for the International Tea Co. Mr. Ubsell, in opening the case, said that the packets were purchased at the Kingston branch of the International Tea Co. The label described the goods as: "Freeman's Glass Lemon, a revolution in lemonade... just the refreshing fruit itself concentrated by a new scientific process." After evidence of purchase had been given, Mr. Edward Hinks, F.I.C., analyst for the County of Surrey, stated that the composition of the powder was: Tartaric acid, 7 per cent.; cane sugar, 91.5 per cent.; moisture, 1.5 per cent.; artificial colouring matter, traces; flavouring essence, traces. The acid natural to lemon-juice could not be detected. The colouring-matter was an artificial dye. The flavouring essence might be prepared from lemons. In reply to questions, the witness stated the article might make a refreshing drink, but was of no use as an antiscorbutic. Sir H. Smith said one would not expect to get strawberries in a strawberry-ice at this time of the year, nor that every Bath bun was made in Bath, nor all Cambridge sausages in Cambridge. Counsel (to witness): If you wanted to know what lemonade is would you go to "Mrs. Beeton's Cookery Book"? Mr. Hinks: No, I think I should buy a lemon. The Chairman: You are not going to call Mrs. Beeton, I suppose? (Laughter.) Mr. Harold Rupert Jensen, chemist and druggist, chief analyst of the Watford Manufacturing Co., called for the defence, stated that the flavouring-matter was prepared from "Zest," which contained all the constituents which could be identified in lemons; he had analysed "Zest," and found it to contain 4 per cent. of citric acid. He considered the powder correctly described as being "the refreshing fruit itself concentrated by a new scientific process." During the hearing of the case Mr. Higgs was called away, and the chair was then taken by the Mayor (Dr. Finny). After a discussion in private, the Bench decided to inflict a penalty of £20 on the Watford Manufacturing Co., Ltd., and £10 on the International Tea Co., Ltd., with 5s. costs in each case.

The New Europe

II.—ESTHONIA

SINCE its heroic and successful defence against Bolshevik aggression in 1919, little has been heard politically of Esthonia, and that country has devoted its energies to consolidating its internal conditions, and promoting the development of its rich natural resources, and of many important branches of manufacture. The most northerly of the former Russian Baltic provinces—its territory is bounded on the north by the Gulf of Finland, on the west by the Baltic Sea, and to the south and east by Latvia and Soviet Russia—its geographical situation destined it to play an important rôle as an intermediary in the trade with Russia. It has an area of about 20,000 square miles, with a population of about 1,800,000 souls. The capital, Revel (in German, Reval), now known by its Esthonian name of Tallinn, has about 170,000 inhabitants, and is a busy port, while Dorpat is the seat of a university well known to pharmacists.

From the pharmaceutical point of view, one of the most interesting achievements of the new republic has been the

utilisation of the natural resources of the country in medicinal drugs, thanks to the enterprise and initiative shown by members of the profession. In addition, several leading pharmacists have fitted up laboratories for the preparation of pharmaceutical products, and have indeed laid the foundations for a national chemical industry, which still awaits development. These efforts to emancipate the country so far as possible from superfluous imports are all the more remarkable for the fact that they are founded on individual enterprise, practically unaided by outside capital, and therefore they constitute an achievement of which the profession may be justly proud. The importance of these efforts is all the greater in view of the fact that prior to the war all drugs, even those growing wild in the country, and all chemicals employed in medicine, were imported from abroad.

During the war, in 1915, as a result of steps undertaken by the Russian Government, various medicinal plants growing wild were collected by the country people, and offered to pharmacists. In 1916, when the shortage of drugs became acute, the Russian Government instituted a series of special courses of instruction at the various universities, including that of Dorpat, with a view of promoting interest in the cultivation of medicinal plants, and this step was followed up by specially written articles appearing in the Press, designed to awaken interest among the population in this economic problem. These steps were attended by a certain measure of success, and, following its traditions, the university of Dorpat did all in its power to interest the people in the collection of medicinal plants, their cultivation and utilisation. A small factory was even erected, in which, *inter alia*, the manufacture of citric acid from bilberries and from cranberries was successfully carried out.

Following the proclamation of the independence of Esthonia, the director of these courses, Professor A. Kessler, a pharmacist, has devoted his whole energies to the question of promoting the cultivation of medicinal drugs in the new State, in which task he has been greatly assisted by the collaboration of two well-known pharmacists in Dorpat—Messrs. Lill and Hakkaja, M. W. Jentson, a pharmacist in Nuustaku, and veterinary surgeon E. Glück. A society was formed, the "Helios," which laid out several plantations of medicinal plants, e.g. chamomile, peppermint, digitalis, belladonna, stramonium, thyme, tansy, valerian, mustard, and even tobacco. At the same time the members did all in their power to interest the country people in collecting wild-growing medicinal plants; M. Kuik even prepared coloured illustrations of such plants, to be hung up prominently in the pharmacies, in order to draw the attention of the people to these "weeds," and to assure their co-operation by buying the plants collected. The result of this indefatigable work of enlightenment has proved most gratifying; not only has it been possible to supply the pharmacists of the country with the necessary stocks of these drugs, but a surplus is now available for export. In this connection it may be mentioned that prior to the war successful attempts had been made in Dorpat with the cultivation on a fairly extensive scale of hydrastis, and also with cascara sagrada and senega.

While a number of chemical products employed in medicine and pharmacy are now being manufactured on a small scale in some pharmaceutical laboratories, the chemical industry is represented by a single establishment, that of Richard Meyer & Co., Revel, which prior to the war found an important market

for its products, chiefly for use in the textile industry in Russia. Its pre-war output included 40,000 poods of anilin oil and anilin salts, 30,000 poods of sodium nitrite, 25,000 poods of oxalic acid, in addition to considerable amounts of pure and technical tannic acid. However, following the loss of the Russian market for such products, the works were rapidly adapted to suit the altered circumstances, and now the manufacture of a variety of chemicals and allied products is being successfully carried out. The factory's production of some of its more important new lines during the year 1920 will best indicate the wide range of its new activities. (One Russian pood equals 36 lb.)

Sulphuric acid	...	...	3,723 poods
Hydrochloric acid	...	...	2,008 "
Nitric acid	...	...	50 "
Caustic soda	...	...	1,335 "
Sodium sulphide	...	...	43 "
Cream of tartar	...	...	808 kilos.
Glauber's salt	...	...	3,387 poods
Sodium bisulphate	...	...	53 "
Sodium sulphite	...	...	65 "
Sodium nitrite	...	...	5 "
Anilin salts	...	...	8 kilos.
Anilin oil	...	...	3 poods
Diphenylamin	...	...	17,774 kilos.



Ether	...	...	260	poods
Sodium bicarbonate	...	...	3,106	"
Sodium carbonate	...	...	6,142	"
Copper sulphate	...	...	972	"
Ferrous sulphate	...	...	4,145	"
Potassium nitrate	...	...	385	"
Lead acetate	...	...	30	"
Aluminium sulphate	...	...	686	"
Methyl alcohol	...	...	67	"
Ammonia	...	...	207	"
Blanc fixe	...	...	750	"
Nygrosin	...	...	10,623	kilos.
Glucose	...	...	45,866	poods

(Prior to the war the production of ether amounted to 10,000 poods annually.)

The principal pharmaceutical laboratories are: the "Ephag," of the Estonian Pharmaceutical Commercial Association in Revel, founded in 1913, and which is at the same time a wholesale supply house possessing its own extensive premises; Lill & Hakkaja, in Dorpat, to whose pharmacy a wholesale drug house is also attached, in addition to an old-established soap factory. The chemical and pharmaceutical laboratory "Aura," in Dorpat, owned by a pharmacist, M. A. Pedel, specialises in the manufacture of extract of male fern, pine oil, amyl alcohol, amyl acetate, etc. In addition, mention may be made of various other laboratories, "Labor," "Remedia," "Medika," "Odor," "Laborator," all in Revel and owned by pharmacists; these are engaged in the preparation of counter-sale articles, cosmetics, and articles of perfumery, proprietary medicines, and numerous preparations of iron, which are such good selling lines in Russia. M. Lill also owns the largest yeast factory in Esthonia, from which it will be evident that he plays a leading part in the development of his country's industrial resources, as evidenced by his many-sided interests. For a small country, of recent creation, and just emerging from the political difficulties inherent to all new states, still further increased by the effects of enemy occupation, followed by a prolonged struggle against a ruthless external foe, the individual and collective energy shown by the members of the pharmaceutical profession of Esthonia in building up an industry hitherto non-existent in a country entirely dependent on outside supplies, in addition to a well-directed system designed to utilise the natural resources of the country, are deserving of the highest praise. It is to be hoped that the possibilities of Esthonia as a market for British pharmaceutical products will not be overlooked, particularly in view of the strong sympathies for Great Britain existing in that country, which gratefully remembers the assistance extended by us in its hour of trial.

New Books

Willis, W. Addington.—*Trade Boards: A Practical Guide to the Operations of the Trade Boards Act.* 7½ in. × 4½ in. Pp. 112. 4s. 6d. net. (Nesbit & Co., Ltd., 22 Berners Street, London, W. 1.) [A readable account of the scope of trade boards in which pharmacists were interested some short time back. Professor L. T. Hobhouse, who writes an introduction, mentions that he is chairman of nine boards. He is a great believer in the system.]

Partridge, W.—*Aids to Chemistry.* 6½ in. × 4 in. Pp. 280. 6s. (Baillière, Tindall & Cox, 8 Henrietta Street, Covent Garden, London, W.C.) [One of the series of "Aids" for students which aim at presenting the subjects dealt with in the most concise form. The present work, which has been entirely re-written, is intended for students who have already been through a course of chemistry. The book begins with a section, "General Chemistry," extending to fifty-five pages, in which the theory of chemistry and various definitions are explained. The other sections are non-metallic elements, the commoner metals, the compounds of carbon, the aliphatic compounds, cyanogen compounds, aromatic compounds, and heterocyclic compounds. The subjects are not gone into in great detail, but sufficiently fully to make the book a useful one for medical and other students.]

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

JACKSONS (ST. HELENS), LTD. (P.C.).—Capital, £100. Objects: To take over the drug business carried on at 32 Westfield Street, St. Helens, Lancs, as "Jacksons."

W. M. INGLIS, LTD. (P.C.).—Capital, £450. Objects: To carry on the business of chemists, druggists, etc. The first directors are: W. M. Inglis, 6 Fosse Road South, Leicester, and E. A. Tomlin, 239 Clarendon Park Road, Leicester.

ALABONE & Co., LTD. (P.C.).—Capital, £300. Objects: To carry on the business of chemists, druggists, etc. The first directors are: B. G. G. Alabone, St. Margarets, Northwich Road, Evesham, and T. R. Collins, 40 Church Lane, Harpurhey, Manchester. R.O.: 22 Port Street, Evesham.

BOOTH AND OPENSHAW (BLACKBURN), LTD. (P.C.).—Capital, £2,000.—Objects: To carry on the business of chemists, druggists, drysalts, oil and colour men, etc. The permanent directors are: W. W. Openshaw, Brooklyn Road, Wilpshire, near Blackburn, and I. Turner, 30 Watling Street Road, Fulwood, Preston. R.O.: 17 and 19 St. Peter's Street, Blackburn.

L. HALL & Co., LTD. (P.C.).—Capital, £500. Objects: To carry on the business of druggists, oil and colour men, manufacturers of toilet preparations, boxes, packing-cases, paint and varnish manufacturers, etc. The permanent directors are: C. A. Ainsworth and Edna Ainsworth, 20 New Chapel Street, Mill Hill, Blackburn. R.O.: 8 Back Wood Street, Darwen.

HARGREAVES (LONDON), LTD. (P.C.).—Capital, £1,000. Objects: To carry on the business of buyers, sellers, manufacturers, refiners, and preparers of and dealers in blue, black-lead, metal, boot, furniture, and other polishes, whitening, blacking, perfumes, soaps, etc., and of industrial, manufacturing and general chemists, and manufacturers of toilet requisites. R.O.: Warton Road, Stratford, London, E. 15.

DOLS, LTD., Huddersfield (manufacturers of Dols vitalise flannel), paid the dividend on the 10 per cent. preference shares for the half-year on October 30, free of income-tax.

TIMMINS DRUG STORES, LTD.—At a meeting held at West Hartlepool on October 20, it was resolved that this company be wound up voluntarily. Mr. W. H. E. Sparks, 60 Scarborough Street, West Hartlepool, was appointed liquidator.

VERNON, POWELL & SPENCER, LTD.—This is the new title which has been adopted by Vernon, Powell, Ltd., wholesale druggists' sundriesmen, 7 Watling Street, London, E.C. Mr. C. J. Spencer, who has recently joined the board of directors, has had twenty-one years' experience of the druggists' sundries business.

LONDON DRUG AND DENTAL CO., LTD.—At a meeting held in London on October 28, it was resolved that this company be wound up voluntarily. Mr. F. Goodingham, 36 Aldborough Road, Ilford, was appointed liquidator, and a meeting of creditors will be held at the office of Mr. G. E. Root, 7 New Court, Lincoln's Inn, London, W.C. 2, on November 16.

A. & F. PEARS, LTD.—The accounts for the year ended June 30, 1921, including £13,306 brought forward, show an available balance of £108,188. Out of this amount payment has been made of the following dividends: 6 per cent. on preference shares, £12,000; 12 per cent. on preferred ordinary shares, £38,400; 20 per cent. on ordinary shares, £40,000. The amount to be carried to reserve is £5,000, leaving a credit balance to be carried forward of £12,788.

THE Vice-Chancellor of the University of Oxford has received an intimation that a "non-recurrent" grant of £30,000 will be made to the University for the financial year 1921-22.

Brewers' Exhibition

THE thirty-eighth Brewers' and Allied Traders' Exhibition and Market opened at the Royal Agricultural Hall, Islington, London, N., on October 29, and continues until November 4. The available space seems fully taken up, and a highly attractive show has been realised. Everything needed for the trades concerned, from an ordinary cork to the latest motor delivery wagon, is on view, and, in addition, there are many novelties which cannot but arouse the interest of trade visitors. Particularly is this so in the machinery section, which is by far the largest in the hall, and much ingenuity has been expended in evolving apparatus that will reduce high overhead charges, which add to the present-day difficulty of finding buyers. The descriptive advertising matter at some of the stands is of a high order. Impressions of some of the exhibits are given, alphabetically, below:

MACHINERY, FOUNTAINS, INSTRUMENTS, &C.

THE BILLOWS PATENTS AND MERCANTILE CO. are the inventors of aerating machines which, it would seem, are an advance on preconceived methods. The feature of the principle employed is aeration by compression, and the "Perennis" machine rapidly aerates, fills, and stoppers mineral waters in one operation. A point to be noted is that sweetened beverages are treated in exactly the same way; there is no frothing, and thus the need of first syringing the bottle is eliminated. This advantage, it is stated, is peculiar to the "Perennis." Mr. Billows demonstrated his contention that, in other machines, much of the gas (about 60 per cent.) is lost. The turbulent liquid which follows the opening of a bottle of aerated water is here shown to be absent, because in the "Perennis" method of aeration an exact charge of carbon dioxide is squeezed into the water or prepared beverage, and is retained for many hours. Proof of the high concentration of gas, and therefore of complete aeration, was given when Mr. Billows flicked some cigar ash upon the liquid. This was sufficient to disturb the equilibrium, and a brisk effervescence was produced. The machine is well suited for hot climates, and the same principles are applied for syphons and soda fountains, the latter giving a real fountain display, which shows the customer that the beverage is freshly prepared. The low output cost makes the machines equally interesting from a financial point of view. D. G. BINNINGTON has a large working exhibit at which special attention is directed to the "Automaton" bottle-washing machine, which has an output of 110 to 120 dozen bottles per hour. THE FARRINGTON WORKS AND H. PONTIFEX & SONS, LTD., draw attention to their patent rotary counter pressure filling machine in various sizes. FARROW & JACKSON, LTD.—Amid the noise of many machines one is told of the improved system of the quadruple saturation of water with pure carbon dioxide in this company's latest mineral-water machine. At the same time the air is blown from the mixture, and in this way, it is claimed, the flavour of the resulting product is greatly enhanced and its keeping qualities intensified. The patent "Whirlpool" saturator, which is intended for fountain use, giving a saturated solution in a fixed cylinder, is also on view. A corking machine, designed for corking small bottles, has a special interest for the drug-trade, as it is arranged for driving the cork flush, or leaving it projecting, as chemists usually prefer. Demonstrations of hand or foot power crown capping machines are given. J. W. FLOWER & Co. have a varied display of labour-saving devices, including bottling, labelling, brushing, and rinsing machinery. Attention is drawn to the fillers, which are entirely of metal, even to the valves, for bottles of all sizes, from small perfumes to quart. In cases where the liquid used necessitates frequent cleansing the fillers are also readily detachable. FLUGEL & Co., LTD., are showing a complete soda fountain with ice-cream cabinets and accessories, which is their well-known soda fountain of a larger growth. This is being recommended to pharmacists who have a leaning towards this branch of trade. It is a handsome fitting, entirely of non-rusting metal. L. LUMLEY & Co., LTD.,

claim to be able to furnish any kind of machine for dealing with the filling, labelling, and corking of liquids. Demonstrations are readily given for the benefit of the curious, and particular attention was drawn to a handy self-feed corking apparatus. A powerful rotary racking pump is recommended for dealing with liquid containing much extractive matter, as, with this apparatus, there is no churning, and consequently the formation of froth, with its attendant disadvantages, is prevented. NEGRETTI & ZAMBRA have an interesting show of all kinds of thermometers, hygrometers, hydrometers, and other scientific instruments. A conspicuous position is allotted to their recently introduced patented (dial and recording) transmitting thermometer, which registers any temperature up to 1,000° F. The unique point in this instrument is that readings may be indicated or recorded at any distance up to 75 ft., thus enabling the controller of the operation, whose office may be on the next floor, to keep the process within his purview without visiting the plant. The sensibility of the instrument is readily demonstrated, and as the connections are compensated the readings can be depended upon. This transmitting thermometer forms a permanent fixture, and breakages are thus reduced to a minimum. While specially adapted for malt-kilns, it will, no doubt, be of value to the chemical trade. R. POWLEY & SONS, LTD., show a complete working plant for mineral waters, which includes an automatic syringing machine, in addition to the filler. THE PURDY PATENT MACHINERY CO., LTD., have machines (the "World" labeller) that seem to be able to deal with all manner of labels for all sorts of containers, including tins, bottles, jars, etc. One to three labels can be affixed in one operation, and a special attachment deals with medicine-duty stamps or other top strap labels. A special machine is obtainable for gunning all over the label, and this, it is claimed, is the only machine of its kind. Other interesting exhibits are the Creaseless electric automatic capsuling machine, which does the job neatly and rapidly, with practically no assistance from the operator, and the siphon-filler, which does not drip, for bottles ranging in size from 2½-oz. upwards. SMART & CLARK, LTD., have good news for prospective purchasers of "Gumax" hand labelling machines in the announcement of a considerable reduction in price. This machine is serviceable to firms whose output does not run to the need for a power labeller. A recent addition, however, to the series is power driven. R. W. WEBSTER & Co., LTD., have already sold part of their exhibit. Their "Dunmore" Junior Automatic Bottle Washing machine is a huge apparatus, which manipulates 240 doz. bottles per hour, the bottles during the process being in the machine for twenty minutes. Their labelling machine deals with a continuous procession of bottles on an endless chain with remarkable accuracy and precision. Smaller apparatus for similar purposes are obtainable.

BEVERAGES, FOODS, ETC.

BOOTS PURE DRUG CO., LTD., who have made rapid progress as manufacturers of fine chemicals, are attracting the attention of the mineral-water trade to their saccharin. This product is one in which the company takes considerable pride, for Boots claim to have been early on the scene with a guarantee that consumers actually obtained the saccharin content paid for. That this has created much satisfaction in the trade goes without saying, and the resulting prestige has been the means of upholding a noteworthy British industry, despite strenuous foreign competition. COLEMAN & Co., LTD.—The Wincarnis stand is, as usual, a conspicuous one, and by a judicious arrangement of mirrors, electric light, and an exhibition vase containing "Wincarnis," the company succeed in conveying, at a glance, the impression that the wine is of the high grade which is claimed for it. "Wincarnis with Quinine" may be sold by registered chemists without a licence. EDME, LTD., draw attention to their malt products for brewers, but they also cater for the pharmacist with malt extract plain and with cod-liver oil. An interesting illustrated brochure is available for visitors, which points out that Edme malt extract was originally introduced for medicinal and baking purposes. Ex-Ox. Co. and BONOVIN (proprietors, Bonovin

Ltd.) show Bonovin, their wine product, and Ex-Ox beef beverage, which are meeting with a good demand among the chemists. The wine, of course, requires a licence, but the quinine preparation may be sold by any qualified chemist. PAINE & Co., LTD., whose "John Bull" malt extract preparations are familiar lines to many pharmacists, are showing specimens of their brewers' high diastatic malt extract. The company has taken over the business of J. R. Page & Co., Ltd., maltsters, Baldock, and are thus able to control their raw material. K. O. HOMFRAY, who makes malt extract plain and with cod-liver oil from Scotch diastatic malt, in the first instance prepares the malt from the barley, and is thus in direct contact with the raw material from the source. The stand is in charge of Mr. C. W. Bayley, who is a registered chemist. MUNTON & BAKER exhibit "Muntona" malt extract, together with malt and barley. They also issue pharmaceutical quality, and intend shortly to prepare a malt extract with cod-liver oil. Oxo, LTD.—This well-known beef product is being advertised on quite novel lines, which, in short, is "Drink Oxo and insure your health." This is double-edged advice, for, while it is claimed that Oxo increases resistance to illness, unavoidable illness is covered, in certain ailments which are enumerated, by an insurance policy granted to consumers in proportion to their purchasers. This should have a stimulating effect on the sales, which are already considerable. Mr. EDWARD SUTCLIFFE, maltster, makes high diastatic malt from English and foreign barley. He supplies some of the largest producers of pharmaceutical malt extract with their raw material in the form of crushed malt. A map inside the stand shows the large, fertile area around the centre of England where he obtains some of the barley for the maltings. A point to be noted is that there is a separate branch for supplying brewers', pharmaceutical, and technical malts, so that each business can depend on getting the material best suited to its needs. WINOX, LTD., have reduced the price of "Winox," which is offered as a wine food that contains no added drugs.

MISCELLANEOUS

F. R. BUCKLEY & Co. display among their bottles a series of well-finished airtight pastille jars. They are able to offer these from spot stock at exceptional rates, and, in addition, crates are free and allowance is made for breakages. B. JONZEN & Co., LTD., supply all kinds of bottles, including dispensing-flats, also medicine-glasses (plain), ready for graduation. LUMINOR SIGNS (BRITISH), LTD., draw attention to their self-luminous signs, which are made of convex mirrored glass. These offer an economical means of advertising by day or night, as they use only reflected light. Another point in their favour is they do not tarnish. As an indication of their accepted value, it is pointed out that the road department of the Ministry of Transport recommend their use for the motor signposts at dangerous corners. The PALMOLIVE Co. have an interesting display of their staple lines, the chief being, of course, "Palmolive" soap. This article, which lends itself readily to attractive counter- or window-display, is a prominent feature amid showcards, which are, one might say, the last word in the printers' art, and which must have good pulling power. "Palmolive" shaving-cream, in collapsible tubes, which is agreeably scented, provides an easy way to rapid and comfortable shaving for the man who shaves himself. Specimen tubes are given so that prospective purchasers may prove this to their own satisfaction. SEXTON, CHATTERTON & Co., colour printers and lithographers, have a multicoloured display of all kinds of labels, showcards, etc. Bottle-caps in great variety are on view, and the smaller sizes for chemists' needs can be made with equal facility. UNITED GLASS BOTTLE MANUFACTURERS, LTD., have a large show of high-grade bottles, and a special section is reserved for the amber-tinted bottles produced at the Charlton Works of the company by means of the Owen's automatic machine. They can supply any kind of bottle required by the drug-trade.

Among the other exhibitors are THE SACCHARIN CORPORATION LTD.; MORRISON, CARPENTER & Co., LTD.

(isinglass); DAWSON BROS., LTD. (machinery); A. BOAKE, ROBERTS & Co., LTD. (technical materials); ROBINSON BROS., LTD. (corks); WM. LUSTY & SONS (packing-cases); WYLIES CLEANSERS, LTD. (polishing soaps, etc.); DRING & FAGE (instruments); DENISON BROS. (labels); J. W. SUTCLIFFE & Co. (bottles); WILSON'S SODA FOUNTAINS, LTD.

Pharmaceutical Education in Holland

A DUTCH Royal decree, dated June 15, 1921, has been responsible for several changes in the pharmaceutical curriculum in Holland. The new regulations came into force in September, and the first "doctoral" examination has recently been held.

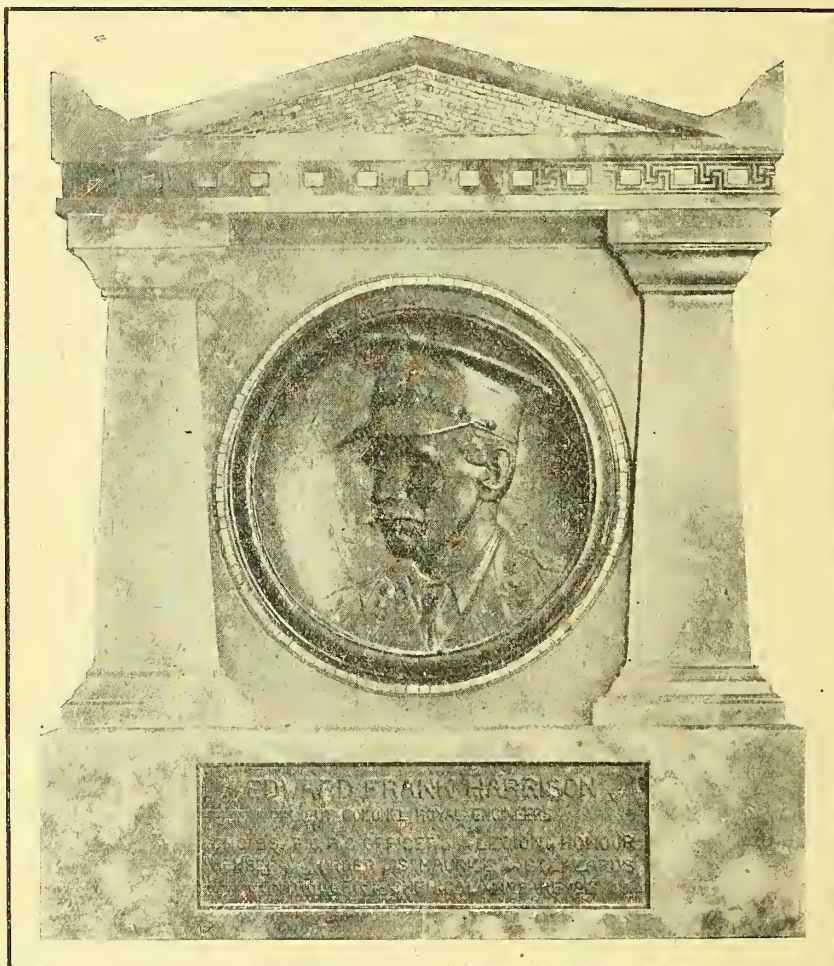
A student, on commencing his academic career with the object of becoming a pharmacist, prepares for the "candidate's" examination, and for this he is allowed, with a view to his future requirements, to choose whichever of the following combinations of subjects he deems will be most suitable: (1) Chemistry as principal branch of study, physics, botany, and mineralogy as accessory subjects; (2) chemistry and botany as principal branches, and physics as accessory; (3) botany and zoology as principal branches, and chemistry as accessory. The first two sections give admission to the doctoral examinations of pharmacy and of chemistry, the third to doctoral examinations of pharmacy and of botany. The special doctorate in pharmacy has disappeared, but after the doctoral examination has been passed the candidate can obtain the degree of doctor in mathematics and physics. For the doctoral examination the candidate must take one principal and at least two accessory subjects. In each case the student has an extensive variety of subjects to choose from, but his choice is subject to the approval of the faculty. This restriction is to prevent too weird a combination. Should the candidate desire to take more than two accessory subjects he is allowed to do so. The doctoral examination qualifies to give secondary instruction in the branch of study that has been chosen as the principal one, and in those of the accessory branches that belong to the same academic faculty. If at some later date the student passes in another accessory subject the success is noted, together with the date, on his original certificate. When the candidate has passed his doctoral examination (with pharmacy, including pharmacognosy, pharmaceutical zoology, pharmaceutical chemistry, etc., as his principal branch of study), he is allowed to take the final (practical) examination. This has not been materially altered, and consists of two parts. The first part includes chemistry and botany, the second is more pharmaceutical. In order to be admitted to this second part of the practical pharmaceutical examination the candidate is obliged to produce a declaration by a qualified pharmacist of having practised pharmacy during at least one year under his supervision. If the candidate has qualified as pharmaceutical assistant he has to present a declaration by a qualified pharmacist that he has worked during at least six months as qualified assistant under his guidance. Previously pharmaceutical students were obliged to pass their assistant's examination, but this is no longer compulsory. The advantage of passing is that, as assistants, they are allowed to work during three months in one of the pharmacies of the large municipal hospitals. For the practical examination special annotations can be given on the diploma for branches of which the candidate has made a particular study and in which he has been specially examined. When, for instance, a candidate wishes to specialise as a toxicologist or as a bacteriologist he can apply for a special annotation on his diploma as a practical pharmacist. Exemption in certain subjects of the practical examinations can be obtained by producing declarations given by leaders of academic institutes and leaders of laboratories, etc., that do not belong to the Universities, provided that the declaration can duly be proved to be trustworthy.

UNVEILING OF THE HARRISON MEMORIAL

London, November 2

WITH a dignified simplicity befitting the occasion, the memorial to the late Colonel Edward Frank Harrison was unveiled by Sir Laming Worthington-Evans, Secretary of State for War, in the examination-hall of the Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., on November 2. Those who had been present at the funeral of that distinguished officer and

have reason to bless Colonel Harrison's memory. After the "Last Post" had been played, most of those present made their way to the platform in order to gain a closer view of the tablet, the work of Phyllis Blundell (Mrs. Quirk), which was praised on all sides as a well-proportioned conception. Among those present, in addition to councillors of the Pharmaceutical Society, were :



chemist were struck by the coincidence that the November day on which he was buried in 1918 was just such a day of rain and gloom as that on which the unveiling ceremony took place. In the hall, which was very full, the military note was predominant, both in the audience and by reason of the presence of a University O.T.C. guard of honour ranged along the walls on opposite sides; and several of those present wore academic or legal robes. The presence of Professor Greenish and Mr. E. T. Neathercoat on the platform, the only other occupant of which was the Secretary for War, fittingly indicated the association of the British Pharmaceutical Conference with the Pharmaceutical Society in the work of establishing the memorial fund. The speech of Sir Laming Worthington-Evans, delivered in strong, resonant tones, was brief and felicitous, voicing authoritatively the gratitude of countless soldiers who

Mr. F. H. Alcock, Mr. R. R. Bennett, Mr. F. C. J. Bird, Sir Anthony Bowlby, Mr. Richard Bremridge, Mr. F. H. Carr, Dr. A. Cox, Dr. F. W. Crossley-Holland, Dr. G. Claridge Druce, Mr. J. P. Ellerington, Mr. E. H. Farr, Captain H. Finnemore, Sir Almeric FitzRoy, Mr. G. B. Francis, Mr. F. W. Gamble, Mr. J. P. Gilmour, Sir William Glyn-Jones, Mr. W. F. Gulliver, Mr. C. H. Hampshire, Mrs. E. F. Harrison, Mr. D. F. Harrison, Mr. D. Lloyd Howard, Sir W. H. Horrocks, Mr. T. H. W. Idris, Sir Herbert Jackson, Mr. A. H. Jenkin, Mr. T. Edward Lescher, Mr. I. T. Lloyd, Mr. G. A. Mallinson, Mr. John D. Marshall, Major E. Saville Peck, Major-General Sir C. E. Pereira, Mr. R. R. Pratt, Mr. W. H. Quarrell, Mr. F. Ransom, Sir Robert Robertson, Colonel O. L. Robinson, Mr. R. A. Robinson, Mr. F. A. Rogers, Mr. W. E. D. Shirtliff, Sir William Tilden, Sir Dawson Williams, and Sir Richard Winfrey.

The President's Speech

The President: Ladies and gentlemen,—Our purpose this afternoon is to take part in the ceremony of unveiling the memorial to the late Colonel Harrison, pharmaceutical chemist and Controller of Chemical Warfare. The genesis of this memorial to one of pharmacy's most distinguished sons lies in the desire of a number of co-workers and friends in the Pharmaceutical Society and in the British Pharmaceutical Conference (with both of which bodies he had been long and prominently identified) to place in the home of British pharmacy some permanent remembrance of Colonel Harrison's personality and record of service to his calling and to his country. A joint committee of the Society and of the Conference was constituted to carry into concrete expression the wishes of those who appreciated the inestimable value of Harrison's work to science and humanity. The Committee appealed for support on a purely pharmaceutical basis, animated by the idea that, whatever honour might be paid to the memory of Harrison as a distinguished chemist or as a valued adviser in chemical warfare, a fitting tribute was due from his pharmaceutical brethren, whom he had served so well, and to whom he never failed to acknowledge his indebtedness. A fund was collected, and the Committee was able to secure the co-operation of an artist (Mrs. Quirk) who had known Colonel Harrison to design the medallion. In addition, the joint Committee has been enabled to place in the hands of the Society, to hold in trust, a sufficient sum of money to provide for the award of an annual memorial medal in silver, together with a presentation of books or apparatus, for the paper deemed to be the most important contribution to the chemistry of drugs in any given year, published or presented by a pharmacist of not more than five years' standing on the Register—the recipient for that year to be known as the "Harrison Memorial Medallist." Any further proceeds from the investment of the trust fund are to be used annually for the purpose of perpetuating the memory of Colonel E. F. Harrison in such manner as the President for the time being of the Pharmaceutical Society and the President of the British Pharmaceutical Conference shall jointly decide.

COLONEL HARRISON'S PUBLIC SERVICES

Harrison's first connection with pharmacy was in 1884, when he was registered as an "apprentice or student" of the Pharmaceutical Society. In 1890 he was successful in winning one of the two Jacob Bell scholarships offered by the Society. During the ensuing session he took the bronze medal in chemistry, a silver medal in materia medica, and certificates in botany, and was awarded the Society's bronze medal in open competition for the Council prizes. He qualified in 1891, and afterwards took the Major examination. In 1892 he served as a demonstrator in the School, and while holding that position obtained his degree of B.Sc. in London University, and passed the Associates' examination of the Institute of Chemistry. He became a Fellow of the Institute in 1905, and, after engaging in pharmaceutical teaching for a time, established himself in analytical practice. Shortly afterwards the Council appointed him an examiner in chemistry for the purposes of the Pharmacy Acts, a position he filled with characteristic zeal and ability until the outbreak of war. Apart from the professional work in which he was immersed, Harrison found opportunity to render conspicuous assistance to the Society and to pharmacy in the production of the British Pharmaceutical Codex (1907 and 1911), which has been recognised by the whole world as a standard dispensatory for the use of medical practitioners and pharmacists. To speak in detail of all his activities would demand a much longer statement than would be appropriate at the present time; suffice it to say that in 1914 the Society's Council had no more loyal, earnest, or able adviser in technical, educational, or examination affairs than Edward Frank Harrison.

With regard to war services, he joined the Sportsmen's Battalion as a private in 1915, at the age of forty-seven, having previously made several unsuccessful efforts to enlist. In April 1915 the first German gas-attack was

made, and soon afterwards Harrison was transferred as a corporal to the special branch of the Royal Engineers, and before long became the leading spirit in the anti-gas department. On our side, the first protective agent was simply a pad of cotton wool soaked in an alkaline solution and tied over the mouth and nostrils with a length of veiling material. Then followed the flannel helmets, which, as their design improved, increased in efficiency, but were not sufficiently protective against the newer gases employed by the Germans, and were also somewhat clumsy in use. Finally came the triumph over all obstacles, when in 1916, mainly as a result of Harrison's ceaseless research and his co-ordination of the work of his subordinates, the small box-respirator was produced. This gas-mask rendered its wearer immune against every form of gas-frightfulness that the ingenuity of the enemy's chemists had evolved. The "S.B.R." was at once adopted by the authorities, and before the end of the war no fewer than twenty million small box-respirators had been manufactured for the use of the British Armies and those of our Allies—Harrison's organising effort to equip the Italian Army in their hour of trial in the autumn of 1917 being a notable achievement. In 1917 he was promoted lieutenant-colonel and awarded the C.M.G. When the offensive and defensive sections of the gas services were merged he became Deputy-Controller, and finally Controller of Chemical Warfare. He died on November 4, 1918, at the age of fifty, from pneumonia, which was probably aggravated by exposure to gas during the course of his experiments. It is hoped that this medallion tablet will help to maintain in undiminished honour and regard for all time the memory of the man who came among us as a pharmaceutical scholar in 1890 and passed to his reward twenty-eight years later, after a career of service and sacrifice to his day and generation—a credit to his *alma mater* and a glorious benefactor to his country in its hour of need. (Applause.)

I will now claim your attention for the Secretary of State for War.

The War Secretary's Tribute

The Secretary of State for War (the Right Hon. Sir Laming Worthington-Evans, M.P.), who was greeted with applause, said: Mr. President, Ladies and Gentlemen,—I am grateful to the Pharmaceutical Society of Great Britain for giving me the opportunity of being present to-day to unveil a memorial to one like Colonel Harrison, who gave his life for science and for his country. It is to me a great honour. The Pharmaceutical Society of Great Britain has always been a friend to the War Office. It has always been ready with the generosity which science teaches to place at our disposal the results of its researches; and as Secretary of State for War I am at this moment awaiting with interest the report of a committee on which three of your most distinguished members are now serving, and which is investigating questions of great importance to the medical service, and therefore to the fighting efficiency of the Army. It is, perhaps, fitting that upon such an occasion the constitutional representative of the British Army should be called upon to pay a tribute of respect to the memory of one to whom the Army owes so much; for the work and devotion of Colonel Harrison had, perhaps, a more direct and visible effect in safeguarding his comrades in battle than the work of any other single man; and it is on behalf of every officer and every man of the Army that I pay a tribute of respect and gratitude for the devotion and self-sacrifice of one to whom so many owe their lives. Indeed, I feel sure that there are many present who owe their lives to him. It would be presumptuous for me to-day to do more than refer to the scientific attainments, the resolute courage, and the self-sacrifice of Colonel Harrison. You knew him better than I did, although I had the pleasure of working with him at the Ministry of Munitions; and the record that your President has read is more eloquent than any words of praise.

The problem which Colonel Harrison was called upon to solve was, perhaps, one of the most dramatic in warfare. He had to provide in the middle of the war—nay, even in the middle of the battle—an armour which would be proof against a new and sinister weapon, deadly to

a degree hitherto unthought of; and it was a task in which Colonel Harrison, with his scientific attainment, would naturally find a deep interest. It was a task, and a task of chivalry, and in Colonel Harrison chivalry found a true knight. It was said in honour of the ancient kings that they killed thousands and thousands; but it will be Harrison's memorial that he saved them. (Applause.) For not a man was sent to the Front in the latter years of the war who might not have to depend for his life at some unexpected moment upon the skill and knowledge of the scientist whom we commemorate to-day. (Applause.) The debt that the British Army owes to science can scarcely be measured. It is true that science is a double-edged weapon. We cannot arrest its progress; we cannot be sure that in future her discoveries will not be put to deadly usage by a desperate enemy. Science has turned the poisoned arrow of the savage into the poison-gas of civilisation; and it might devise weapons more deadly yet. We may deplore their use, but we must be ready, if not to use them, certainly to meet them; and it is on this account that the soldier's need for science grows greater day by day. Colonel Harrison had the knowledge, and he used it in the interests of the Empire's soldiers. It is to him as a great patriot and a great pioneer that I am now about to unveil the memorial. (Applause.)

The Secretary of State for War then removed the Union Jack which covered the memorial, the audience rising to their feet and remaining upstanding while the buglers of the Coldstream Guards played the "Last Post," accompanied by a subdued roll of drums.

The proceedings then concluded. Most of the audience afterwards inspected the memorial.

Westminster Wisdom

By the "C. & D." Parliamentary Representative

CHRISTMAS HOLIDAYS

The Chancellor of the Exchequer announced in the House of Commons, on October 27, that it is proposed to declare December 27 a bank holiday this year in England and Wales.

REGISTERING HERBALISTS

Lieut.-Commander Kenworthy asked the Minister of Health whether His Majesty's Government contemplate any steps for the better regulation and registration of herbalists on the lines of the recent Dentists Act?

Sir A. Mond: The answer is in the negative.

THE CHRISTMAS POST

The Postmaster-General informed the House of Commons, on October 27, that on Christmas Day a full delivery of letters and parcels will be given both in London and the provinces. On Boxing Day there will be no deliveries. This will be the first occasion on which there has been a full delivery of parcels and letters in London when Christmas Day falls on a Sunday.

WARBLE FLY

The Minister of Agriculture stated, on October 20, that the investigations of the Committee appointed to report on the warble fly are not yet completed, but he was advised that the Committee is very hopeful that an effective preventive against attacks of this pest has been discovered. Experiments have recently been tried with a wash composed of tobacco powder mixed with lime, and very encouraging results have been obtained.

MAGADI SODA CO., LTD.

Mr. G. Barker, on October 25, asked the Secretary of State for the Colonies whether, seeing that the Government, during the late war, took over the control of the railways and water supply in East Africa belonging to the Magadi Soda Co., Ltd., and that this property was of great assistance to His Majesty's forces in the cam-

paign in this area, he will arrange that the claim made by the company for the interest on the money expended on the railway and on the water supply during the period when the Government had control shall be paid by the Government.

Sir L. Worthington-Evans replied that the claim has received careful consideration, but he is advised that it is inadmissible.

NATIONAL HEALTH INSURANCE

The Minister of Health, on October 28, moved the second reading of the National Health Insurance (Prolongation of Insurance) Bill, which, he said, is very urgent and necessary in order to meet the case of a large number of those who have been within the ambit of the National Health Insurance benefit for several years, but who, owing to prolonged unemployment, would fall out unless special provision was made. The framework under which the Bill will work is as follows: There will be no charge on the State contribution. The cost of the increased period of benefit, and the retention on the insurance of those who otherwise would not be retained, will be derived from the funds available which are in the hands of approved societies. The Bill will have the effect that insured persons will be maintained in cases in which they would otherwise fall out, and they will be entitled, up till the end of next year, to maternity benefit and sickness and disablement benefit in accordance with the scale of twenty-six contributions. They will further be entitled to medical benefit up to June 1923.

The Bill was read a third time on November 2.

CLINICAL THERMOMETERS

Mr. Jesson asked the President of the Board of Trade on November 2 whether clinical thermometers of foreign manufacture will be accepted for testing at the National Physical Laboratory, and whether the Government will insist that such thermometers be marked with the country of origin, as well as the letters "N.P.L." in order to prevent the assumption that they are of British manufacture, with a view to safeguarding the British industry.

Sir William Mitchell-Thomson replied: The answer to the first part of the question is in the affirmative. He was advised that the standardisation mark of the National Physical Laboratory, which is registered under the Trade Marks Act, is, and has always been, intended to convey a certificate of the accuracy of the articles marked. The Laboratory are not in a position to determine or certify the origin of thermometers presented to them for marking. The question of the requirement of an indication of origin in the case of clinical thermometers is part of the large question of the compulsory marking of foreign goods generally which will be dealt with in the Bill to amend the Merchandise Marks Act which the Government have undertaken to introduce.

GERMAN POISON GAS

Mr. W. J. Uglov Woodcock, on October 26, asked the Secretary of State for War whether he has seen a book entitled "The Riddle of the Rhine," by Major V. Lefebure; whether he is aware of the great strength and menace of the German organic chemical industry; whether plants specially erected during the war for the manufacture of poison gas have been dealt with under Articles 168 and 169 of the Treaty of Versailles; whether, as is suggested in the book, it is true that a commercial ruling has been superimposed on the military clauses 168 and 169 of the Treaty; and, if so, by whom was it imposed and in what manner has a military body, the Inter-Allied Commission of Control, been equipped to operate it?

Sir L. Worthington-Evans replied that the military authorities are well acquainted with the book named and with the potential military value of the chemical industry of Germany. No commercial ruling has been superimposed on Articles 168 and 169 of the Treaty of Versailles and the Inter-Allied Commission of Control is engaged in securing, by the inspection of over 7,000 chemical factories, the observance of the conditions of those Articles including the destruction or conversion of all plants specifically adapted for the manufacture of poison gas.

Marriages

CHADWICK — WALMSLEY.—At the Congregational Church, St. Anne's-on-the-Sea, on October 27, by the Rev. F. Riddell, Samuel Edwin Chadwick, chemist and druggist, second son of Mr. Chadwick, "The Rowans," Cadley, Preston, to Ethel B. Walmsley, only daughter of Mr. John Walmsley, "Dalecot," St. Anne's.

MORISON—MACKENZIE.—At Crow's Point, Indiana, U.S.A., on October 6, Grant Morison, younger son of Mr. John Morison, chemist and druggist, Dundee Street, Edinburgh, to Gladys M. B. Mackenzie, youngest daughter of Mrs. Mackenzie, Leytonstone.

MURRAY—GREENHILL.—At the Burlington House, Bath Street, Glasgow, on October 21, by the Rev. James Muir, B.D., David Murray, chemist and druggist, to Christian Moyes (Chrys), youngest daughter of the late Mr. James Greenhill, printer and publisher. Lochgelly.

Diamond Wedding

EDSON—GREEN.—At the residence of the bride's parents, Auckland, New Zealand, on May 24, 1861, by the Rev. Isaac Harding, John Edson, second son of the late Mr. Leonard Edson, Easingwold, Yorkshire, to Susan, sixth daughter of the late Mr. James Green, formerly of Maidstone (see next column).

Deaths

HAVARD.—At Cross House, Newport, Pembrokeshire, on October 18, Mr. Benjamin Havard, Ph.C., aged seventy-six.

HINDMARCH.—At Lytham, on October 30, Mr. Thomas Forster Hindmarch, chemist and druggist, 15 Clifton Street, aged fifty-five.

PASSMORE.—At Stonefield, Woodwich Road, Bexley Heath, on October 29, suddenly, Mr. Francis William

Passmore, Ph.D., aged fifty-three. Dr. Passmore, who was a well-known analytical and consulting chemist practising in Queen Victoria Street, London, E.C., died of heart disease whilst out working near his house. The son of Mr. Passmore, who was for many years sub-editor of "The Pharmaceutical Journal," he became a pupil for five years with Dr. B. H. Paul, the editor, who had an extensive analytical practice in cinchona and coca assaying. Dr. Passmore afterwards studied at Würzburg under Emil Fischer, and worked on the synthesis of sugar,



DR. F. W. PASSMORE.

taking the degree of Doctor of Philosophy. Returning to England, he entered the research laboratory of the Pharmaceutical Society at Bloomsbury Square, London, W.C., and worked under Professor Wyndham R. Dunstan on aconite and other alkaloids. The death of his father necessitated the abandonment of an academic career for which he was intended, and he entered into analytical and consulting practice with Mr. H. Helbing, with whom he was for many years associated in partnership. Dr. Passmore became one of the most eminent men in his profession, and specialised in drugs and pharmaceutical preparations generally. His practice covered a wide field, and there were few prominent legal actions relating to chemical patents in which he was not called upon as expert. He was the first, in 1902, to manufacture saccharin on a commercial scale, and he also perfected a process for making synthetic camphor. Dr. Passmore was

a Fellow of the Institute of Chemistry, a member of the Society of Chemical Industry, of the Society of Public Analysts, etc. He was a man of frank disposition and of broad views, which he was not afraid of putting into practice. He leaves a widow and three sons. The second son is now at St. Andrew's University, and intends taking up chemistry as his profession.

WATSON.—At St. John's Chapel, Westgate, Durham, on October 18, Mr. Joseph Watson, chemist and druggist, aged seventy-three. Mr. Watson was in business before August 1, 1868.

Personalities

MR. C. G. YATES, chemist and druggist, President of the Brighton and Hove Association of Pharmacy, has been elected a member of the Brighton Town Council.

MAJOR J. H. B. WIGGINTON, M.C., a director of The Erasmic Co., Ltd., who is President of the Buyers' Provident Association, was in the chair at a highly successful concert of the Association held at Queen's Hall, London, W., on October 29.

MR. F. J. BROCKIES, a town representative in the London house of Evans Sons Lescher & Webb, Ltd., is retiring at the end of this month. Mr. Brockies has been in the business for nearly forty-four years. He will be succeeded by Mr. H. G. Leal.

MR. R. D. SILVER, chemist and druggist, Kettering, gave a lecture on advertising before the local chamber of trade on October 25. Mr. Silver advocated that posters should measure not less than 40 in. by 60 in., and cautioned advertisers to be careful of the use of humour.

MR. A. HUMPHREYS, managing director of Bleasdale, Ltd., manufacturing chemists, York, has been elected a member of York City Council for Castlegate ward. As this is Mr. Humphreys' first attempt for municipal honours, his success is particularly gratifying to his supporters.

MR. BENJAMIN HOLDEN, chemist and druggist, has been returned to the Blackburn Town Council after a contest in St. John's ward in which his majority eclipsed the combined polls of his two opponents. There are now three pharmacists on this council, the other two being Mr. C. A. Critchley, Ph.C., and Mr. W. H. Grimshaw.

MR. STAFFORD ASTON, F.I.C., has been appointed temporarily as county analyst for Middlesex. Mr. Aston was for many years chief assistant to the late Mr. Edward Bevan, whose death was announced in our issue of October 22 (p. 53). The County Council has instructed its public health committee to report whether it is desirable to make any alteration in the tenure, duties, and salary of the office of county analyst.

MR. OWEN A. CLARK, M.B.E., J.P., chemist and druggist (Nunn, Hinnell & Clark, chemists), Bury St. Edmunds, was on October 27, on the occasion of his retirement from the post of commandant of the local Voluntary Aid Detachment, after ten years' service, presented with an illuminated album, signed by 200 past and present members, and a cheque. For reasons of health Mr. Clark, who is an ex-Mayor of the town, is taking up his residence on the coast.

MR. JOHN EDSON, chemist, Auckland, New Zealand, whose diamond wedding is announced on this page, is the son of a Yorkshire farmer, and was apprenticed in 1851, at the age of fourteen, to the late Mr. John Rookledge, chemist, Easingwold. After serving a term of six years, with only two weeks' vacation during the whole period, he became an assistant at Kingswood, and later at Southport, where the idea of emigrating was suggested to him by Mr. Clark, of Butterfield & Clark, wholesale druggists, York. The voyage to Auckland in 1859 occupied 106 days. Mr. Edson's business career in Queen Street extended over nearly fifty-four years, during which time he had in all eleven competitors in his block of buildings: none of them, however, remained long. Mr. and Mrs. Edson have had a family of six, of whom three are living.

Trade Notes

FIXED oils of every kind are supplied by James Arnott & Sons, Ltd., 47 Pilgrim Street, Newcastle-on-Tyne.

AMYL VALERATE is offered at lowest prices by George Young (Chemists), Ltd., Argo Works, Sugar House Lane, London, E. 15.

PALMOLIVE advertising is dealt with in the announcement of the Palmolive Co., 13-14 Great Sutton Street, London, E.C. 1.

BRITISH-MADE FINE CHEMICALS.—W. J. Bush & Co., Ltd., Ash Grove, Hackney, London, E. 8, give an imposing list of fine chemicals which they manufacture and for which they invite inquiries.

DUMA EAU DE COLOGNE.—Evans Sons Lescher & Webb, Ltd., give illustrations of the different packages of Duma eau de Cologne, of which they are wholesale distributors. The wholesale and retail prices are given.

A NEW GRANULATING MACHINE has been produced by S. W. Wilkinson & Co., engineers, Western Road, Leicester. It is a labour-saving device for producing powders in granular form for compression into tablets.

HYGELA NURSING BOTTLES, which have not been available in this country for some time, can now be had from John Bell & Croyden, Ltd., 50 Wigmore Street, London, W. 1, a large consignment having been received from the United States.

REDDGRAVE, BUIER & Co., Park Lodge, Forest Lane, London, E. 15, ask us to mention that a statement which is being circulated that the firm supply their Russian paraffinum liquidum in bottles direct to the public is untrue.

"FACTOLAC FACTS."—J. L. Hopkins & Co., 100 William Street, New York, have published a new booklet entitled "Factolac Facts," which gives many useful suggestions regarding the manufacture of emulsions of fixed and volatile oils. A copy will be posted on request.

DRY-SHAMPOO POWDERS.—Evans, Gadd & Co., Ltd., wholesale druggists, Fore Street, Exeter, advertise a new line of dry-shampoo powder, which is packed in an attractive brown and yellow envelope. Inside each packet is an interesting circular giving toilet hints. The chemist's name and address is placed free when two gross of the powders are ordered.

"GRIPS" PASTILLES.—J. W. Lightbown & Sons, Accrington, have appointed Thos. Christy & Co., 4-11 Old Swan Lane, London, E.C. 4, sole agents for their well-known "Grips" pastilles. An advertising campaign is now running in many of the leading newspapers throughout the country, and chemists are asked to be prepared for the demand which is being created. Attractive show-cards and window-slips are being supplied.

BRITISH-MADE CHEMICALS.—The Gracsser-Monsanto Chemical Works, Ltd., Ruabon, North Wales, and 62 London Wall, E.C. 2, have issued a handsomely produced list of their chemical products, a concise description of the uses and physical factors of each item being given. Phenols and cresols are first dealt with, then follow "fine" and pharmaceutical chemicals, intermediate products, etc. A foreword to the list gives a short history of the British side of the firm from its inception in 1867 to the present time.

A LIGHTING ATTRACTION.—We have had the opportunity of inspecting the electric-lighting novelty, a revolving lamp-shade, offered to chemists by D. & W. Gibbs, Ltd., and referred to in last week's issue (p. 58). It is simply yet ingeniously constructed, and consists of a cardboard stand, into which an electric bulb is fitted. On the pip of the bulb the shade, depicting three units of the "Gibbs toothbrush brigade," a laughing child (showing an excellent set of teeth), and a notice concerning the supply of Ivory Castle books, is balanced and is so light that it freely revolves. The necessary connections for fitting to the lighting system, together with a diagram (though this is hardly necessary), are supplied. If placed in a sunny window, the shade will revolve during the day without the lamp being lighted.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1921, p. 300.

(From "The Trade-marks Journal," October 12, 1921.)

- "PULKERIA" in facsimile handwriting; for all goods (48). By R. R., W. V., and A. Mason, 248 Fordhouse Lane, Sturichley, Birmingham. 417,255.
- "HEDRAYNE"; for perfumery, etc. (48). By S. Winroope, 23 Market Place, Great Bridge, Staffordshire. 417,553.
- "PAROLIA"; for perfumery, etc. (48). By R. W. Crosby, 20 Montpellier Parade, Harrogate. 417,757.

(From "The Trade-marks Journal," October 19, 1921.)

- "GLUDEX"; for chemicals (1) and for adhesives (50). By the Empire Paste Co., Ltd., Rendlesham Road, Clapton, London, E. 5. 417,902/904. (Associated.)
- "LADY DI"; for chemicals (1) and for goods (47). By J. Crossfield & Sons, Ltd., Bank Quay, Warrington. 417,964/966. (Associated.)
- "NUTRIGENE"; for fertilisers (2). By Hawker & Botwood Ltd., The Grove, London Road, Grays, Essex. 416,533.
- "COLACTOL"; for medicinal chemicals (3). By I. Deiglmayr, Baierbrunnerstrasse 14 and 16, München, Germany. 410,289.
- "SAGESSE" on circular device of head of man with long beard; for medicines, etc. (3). By Sagesse Co., "Euroclydon," Drybrook, Gloucestershire. 414,279.
- "TRIOLIN" forming device; for medicinal chemicals (3). By Köln-Rottweil Aktiengesellschaft, 8 Hindersinstraße, Berlin, N.W. 40. 414,635. (Associated.)
- "PITTEGLANDOL BRAND," "LUTEGLANDOL BRAND"; for pharmaceutical products (3). By the Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C. 3. 417,404/405. (Associated.)
- "MAGNOIDS"; for absorbent lozenges (3). By Smith & Co., 132 Borough High Street, London, S.E. 1. 417,451.
- "YATREN"; for a medicine (3). By J. T. Findlay, 58 Renfield Street, Glasgow. 417,770.
- "ULYPTOL"; for medicinal chemicals (3). By the "Sanitas" Co., Ltd., Locksley Street, Limehouse, London, E. 14. 417,907.
- "PRATLEAF" on scroll and leaf device; for medicinal chemicals (3). By A. Pratt, 17 College Parade, Brondesbury Park, London, N.W. 6. 418,036.
- "SANBAND"; for an adhesive surgical bandage (11). By W. E. Hampson, 4 York Street, Manchester. 416,460.
- "GEENETWA" on diamond-shaped device; for a hair preparation (48). By Agnes G. Gardner, 2 Mount Pleasant, Darlington, and Gladys M. Whittaker, 45 Orchard Road, Darlington. 417,357.
- "LALO"; for a hair preparation (48). By W. Wiglesworth, 15A North Audley Street, London, W. 1. 417,889.

(From "The Trade-marks Journal," October 26, 1921.)

- "KOTINIC"; for flashlight powders, etc. (1). By Kodak Ltd., Kingsway, London, W.C. 2. 418,037.
- "DISFECTALL"; for disinfectants (2). By L. Dennis & Co., Ltd., Thorpe Street, Walkden, nr. Manchester. 417,877.
- "FUNGRAY" and "WHEELSOLIN"; for veterinary chemicals (2). By J. R. Reith, St. Devenick's Pharmacy, The Square, Cults, Aberdeenshire. 418,076/081.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

M/3010. Cassia Atlantica.	E/111. Osidine.
H/111. Cupri-Selenite.	O/2510. Panstraeton bath-brush.
D/111. Meyer-Sanders' products (London supply).	

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Alphol disinfectant, R/2910	Glass ampoules, R/2610
Carter's iron pills, L/111.	"Homoece" ointment, C/2610
Cryogenine, Lumiere's, D/111	"Jontel" toilet articles, C/2510
Disinfectors for hospital laundry use, R/3110	Lukens' cargut, W/3110
"Elephant" brand combs, R/2610	"Nopaine," E/1110
Elixir Peptenzyme, K/111	Reccoran, C/111
Ethanesol, W/2410	"Star" razors, R/2610
	Tucker's asthma cure, P/3110

Observations and Reflections

By Xrayser II.

"Leave the Associations Alone,"

says Mr. Humphrey, "and form branches of the Society independently of them." So, too, say I, and have said—extending the advice so as to make it apply equally to the Retail Pharmacists' Union. The fantastic attempts we have seen made to turn some existing associations into branches of both bodies should be an object-lesson to the rest, and why is it necessary that there should be as many branches either of the Society or of the Union as there are associations? That there is no such necessity so far as the Society is concerned Mr. Humphrey declares, and I said it long ago of the Union without provoking any reasoned rejoinder. No association divided into branches will be what it formerly was, and it may prove to be in a very real sense a house divided against itself. My opinion is that independent associations have as legitimate and useful a place in the pharmaceutical polity as those which are organically connected with Union or Society or both. They are at least likely to bring as impartial a judgment to bear on the problems of the craft and to be as able to make their genuine voice heard.

Universities

have always fulfilled or aimed at fulfilling a double function; they have been training-schools for the learned professions, and they have been expounders and upholders of the ideals upon which human society ultimately rests. It is, I presume, as pertaining to the former that they are beginning to grant degrees in pharmacy. It is true that commerce, in which the University of Belfast grants degrees, is not generally recognised as a learned profession, but it may be on the way to being so recognised, and the action of the University should help it. So, too, with pharmacy. Is our calling a profession, or is it not? The answer will be more generally in the affirmative when (if ever) it is a common thing to see "Bachelor of Pharmacy" or "Doctor of Pharmacy" on our shop-fronts. Personally, I am not averse of such distinctions, and I doubt whether they would not be rather a hindrance than a help to the pharmacist in business, but they would sit gracefully and usefully enough upon the pharmaceutical teacher, for whom they are probably designed, and our ideals might be improved by the reflected glory shed by him upon us.

The Progressive Pharmacy Club,

at its annual meeting on October 12, had to listen to a tale of comparative failure. It has "not received the support which a chemists' club deserved," and, though it takes some blame to itself and admits a doubt whether it has not "missed the true club idea," complaints of slackness on the part of chemists generally and active opposition in some quarters are made in excuse of its failure to rise "above a certain level." The fact is that the club is no longer what it started out to be, a fighting force; it has lost its *raison d'être* as a progressive club (we are all progressives now), and must either establish itself upon a broader basis or pass into the limbo of things that have had their day and gone out of mind. Other schemes for a pharmacists' club have been broached, but came to nothing, and it must be confessed that the difficulties in the way are many. Pharmacists as a class are not, I fancy, what Dr. Johnson called "clubbable men," and many of those that are belong to a class well advanced in life, whose tastes are not those of the younger men without whose co-operation the ideal "Pharmacists' Club" could not be realised. There is, however, evidently a desire for one, and in the P.P.C. we have what might be made the nucleus of such an one as we desire. It must drop the name "Progressive" and eschew all political aims; it must secure a fitting local habitation of its own, it must throw its doors open to all—male and female—who are actually engaged in pharmacy, and aim at becoming a social centre of entertainment, amusement, and intelligence, where everybody will

be sure of finding something to his mind. If properly supported, there is no reason why sports should not be one of its features. "Support" is the word to emphasise; it is the one thing needful, and, needless to say, time would be required for the fulfilment of such an ideal. The point is that with the P.P.C. already in existence it might be able to start at once on a new career with a fair prospect of growing into something like I have sketched. But where is the money to come from? There is money enough in pharmacy for all this if only we could get at it.

The Relinquishment

by Evans Sons Lescher & Webb, Ltd., of the trade in proprietaries is, of course, a matter for their own determination, but it affects so many of us to such an extent as to be one for public comment and, I think I may add, for public regret. "Proprietaries" is rather a wide term, and includes preparations of many kinds which we cannot do without, and it is, especially in country places, an immense convenience to be able to make up a general order. We may agree that patents and proprietaries generally do not bear the profit they ought (except to the proprietors); we may even wish that it were possible to scrap many of them, but clearly it is not. For good or evil we have become the chief distributors of these things; we have, in Shakespearean phrase, become "subdued to what we work in," and we must abide the consequences. We cannot, like a great wholesale firm, choose our own line to the exclusion of others that we dislike or only half like; the only sound rule for a tradesman is to supply what his customers want, and to this complexion most of us have come. Whatever other view may be taken of Messrs. Evans's withdrawal from this trade, every pharmacist will regret that we shall thus lose the help a business house of such standing could not fail to give in negotiations with proprietors.

The Romance of Camphor

(to borrow the title of your interesting article) would fill a large volume. We first hear of it as a medicine in the sixth century. The camphor of the Arabian physicians was evidently what we usually call Borneo camphor, found in a solid crystalline state in the trunk of *Dryobalanops aromatica*, and formerly judged worth its weight in gold. This, too, is probably what first came to us as camphor in the twelfth century, when it was regarded as a mineral. Even in the seventeenth century Coles seems to be speaking of this when he says it "issueth forth partly of its owne accord, but chiefly by incision." Lemery speaks similarly, but says camphor came from both Borneo and China. Garcia d'Orta, however (1563), says that only Chinese camphor comes to Europe, though Smith, a London merchant, writing twenty years later, mentions both Chinese and Borneo camphor as familiar articles of commerce. Japan camphor seems to have come to us later through Holland, and that of Formosa last of all. Mandelslo, who in his voyages (1639) visited that island, makes no mention of it, though he describes the country and its products at some length; nor (says Hanbury) does Du Halde, who wrote in 1727. Camoens, in the "Lusiad," has an interesting reference to camphor, which Mickel thus translates:

Borneo here expands her ample breast,
By Nature's hand in groves of Camphire drest."

An American drug company, which has an office in Bombay and employs agents to sell medicines in the country districts, announces that the business is increasing so rapidly that it is impossible to fill all orders. The goods are shipped from Bombay c.o.d., and not delivered until the post office, banks, or railways have collected the charge. Agents call upon and study the requirements of their customers, visit the hospitals and medical schools, and are in close touch with native druggists. Advertising is conducted on an extensive scale, this being found a most successful method of transacting business in India.—"Times Trade Supplement."

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AND B.P.
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Editorial Articles

Labelling Lemonade Powder

OUR readers will have noticed that in one part of the country a series of prosecutions has been undertaken by public authorities, with the object of limiting the use of the word "Lemonade" to beverages or to lemonade powders which are actually made from lemons. The cases have been taken under the Sale of Food and Drugs Acts or the Merchandise Marks Act, and, although it has not always been possible to prove prejudice to the purchaser as required by the Sale of Food and Drugs Acts, convictions have been obtained under the Merchandise Marks Act. These have been rendered possible by the use of claims made, we believe, quite innocently, but which are in some cases unwarrantably exaggerated. The prosecutions have become a "stunt" with public analysts, and are likely to spread throughout the country, as these officials generally follow one another like a flock of sheep, especially when only simple analytical processes are involved. We are chiefly concerned here with various lemonade powders and the manner in which they are labelled. It has always been the custom, so far as we can gather, to manufacture lemonade powders with tartaric acid, the reason being the obvious one, to avoid the disadvantage of hygroscopicity possessed by citric acid. The slight difference in price is not a factor in this matter. Both tartaric acid and citric acid are obtained from the vegetable kingdom, the former from grapes and the latter from lemons, and, as the flavour and properties of solutions of the pure acids are indistinguishable, there is no valid reason why tartaric acid should not be employed in the preparation of an acidulate beverage. The difficulty, however, arises in regard to the labelling of lemonade powders. The word "Lemonade" is defined in all the dictionaries we have consulted as a "liquid made of lemon-juice, sugar, and water," or similar words, but even this definition is defective in that it does not emphasise the characteristic flavour of lemonade, which can only be obtained from the peel. Lemonade is, we should say, a judicious blending of the flavour and taste of lemons with sugar in the form of a beverage. The most that a powder can do is to produce when dissolved in water a beverage with the flavour and taste of lemonade. This leads us to the question of labelling lemonade powder and we find ourselves in a similar position to the "citrate of magnesia" case which agitated the trade many years ago. In the case of lemonade powder, it is contended that there is a difference in the antiscorbutic properties of tartaric acid and citric acid, but this is an out-of-date idea, as it is known now that the antiscorbutic properties of lemons are contained in the juice after it has been deprived of citric acid. It is the absence of the vitamin-containing residue which is the chief objection to lemonade made from dry powders, as the concentrated

of lemon-juice so as to retain the vitamins is only possible by a tedious process not yet possible on a commercial scale. We suggest that chemists who make lemonade powders should see that these are properly labelled. A suggested form of label for powders not prepared with citric acid is

LEMON-FLAVOURED POWDER

makes a pleasant and refreshing beverage
as palatable as

LEMONADE.

It has also been suggested that use might be made of the word "Lemony" in the title. This word is defined as "resembling the smell of lemon; tasting of lemon." We should be glad to have the views of our readers as to the form of label that should be used.

Government Chemistry

MANY chemical problems arise in connection with the work of Government departments, and, as is well known, the Government Laboratory at Clement's Inn conducts the chemical work of many departments and public bodies. The Government chemist, Sir Robert Robertson, who succeeded Sir James J. Dobbie in March, has just issued the report of the laboratory for the year ended March 31. There are a good many interesting matters in the report, although the bare details given do not perhaps convey so much information as could be desired. Dealing with work performed for the Customs and Excise, it is mentioned that of sixty-nine samples of herb beer and ginger beer examined, thirteen contained between 2 and 5 per cent. of proof spirit. Of 1,258 samples of beer and brewing materials examined for arsenic, forty were found to contain arsenic in excess of the limits laid down by the Royal Commission on Arsenical Poisoning—viz., the equivalent of $\frac{1}{100}$ gr. of arsenious oxide per lb. in the case of solids, or per gallon in the case of liquids. The Finance (New Duties) Act, 1916, and the Finance Act, 1916, imposed Customs and Excise duties on table waters at rates varying from 2d. to 8d. per gallon. In order to determine the question of liability to duty, fifty-eight samples of mineral and spa waters, 654 samples of cordials, syrups, fruit juices, and essences, and forty-two samples of "non-alcoholic" wines were examined. Of the fifty-eight mineral waters, thirty-five proved to be medicinal and twenty-three were liable to table-water duty. Of the 654 cordials, syrups, etc., only nineteen contained more than 2 per cent. of proof spirit, the highest being 5 per cent. Three of the so-called "non-alcoholic" wines contained more than 2 per cent. of proof spirit, the highest being 3.8. Fusel oil, a by-product in the manufacture of spirits, consisting largely of butyl and amyl alcohols, is of considerable commercial importance as a constituent of lacquers, varnishes, etc. Fusel oil, whether imported or home-produced, generally contains ethyl alcohol as an unavoidable impurity; but duty is not charged unless upwards of 15 per cent. of proof spirit is present, which was the case in nineteen of the eighty-eight samples submitted for examination. Acetic ether, which is a tariff article, is found as an accidental impurity when fusel oil containing spirit is transformed into commercial amyl acetate, and in such cases a proportion of acetic ether equivalent to the spirit allowed free in fusel oil is also admitted free of duty. During the year 22,184 samples of medicinal spirits, tinctures, perfumes, hair-washes, dentifrices, liniments, extracts, infusions, etc., were examined as to their

character and spirit strength in order to check the exporters' claims for drawback on the spirit used in their manufacture; and in addition 3,456 liniments, hair-washes, and other preparations were tested for the presence of methylated spirit, the use of which in such preparations precludes any right to drawback on exportation. In one of these cases the presence of methyl alcohol was detected, and in 392 cases the declared strength of the preparation was overstated. Duty is assessed on imported preparations containing spirit, such as various drugs, chemicals, toilet preparations, flavouring essences, varnishes, etc., and of such preparations 5,030 were examined, as against 4,160 last year. Denatured spirits, if imported, are chargeable with duty; but wood spirit (methyl alcohol) is not dutiable unless so purified as to be potable and consequently liable to be used as a substitute for ordinary spirit. Of fifty-nine samples of methylic alcohol, twenty-two were found liable to duty on the ground of purity. Fourteen samples of so-called "solid alcohol" were examined. These preparations, consisting in general of cakes or cubes of soap or other suitable medium saturated with strong spirit, are mainly used in small portable cooking stoves. Samples of wood naphtha and mineral naphtha, intended for use in the preparation of methylated spirit, to the number of 733 were examined. The naphtha represented by 720 of these samples was approved as fit for methylating purposes, while that represented by the other thirteen samples was rejected as unsuitable. For the purpose of controlling the use of duty-free methylated and other denatured spirit in connection with manufacturing operations, 586 samples of special denaturants, specially denatured alcohol, recovered spirits, residues from stills, and articles manufactured with industrial spirit, etc., were examined. One thousand eight hundred and forty-three papers were dealt with relating to applications to the Commissioners of Customs and Excise, either (1) in respect of claims for rebate on alcohol used in making medicinal preparations, or (2) in connection with permission to receive methylated spirit and other forms of duty-free alcohol for use in manufactures, tuition, and research. In the former instance advice was required as to whether the claims in question were such as could properly be allowed under section 4 of the Finance Act, 1918. The other references were sent chiefly for advice as to whether the purposes to which it was proposed to put the alcohol were, from the chemical point of view, such as to justify the granting of the particular indulgence asked for. The work of the Government Laboratory in connection with tobacco consists chiefly in the examination of unmanufactured and manufactured imported tobacco, tobacco manufactured in the United Kingdom for home consumption, tobacco and commercial snuff for drawback on exportation, and offal tobacco for drawback either on exportation or on abandonment or denaturing. Seven samples of various herbal smoking mixtures were examined, all of which were found to be free from any admixture with tobacco. Various substances, such as sulphur, asafœtida, sago flour, tar oil, carbolic and cresylic acids, moss litter, soda ash, borax, hellebore, cayenne, lampblack, and saltpetre, are used in denaturing tobacco, and 173 samples of these materials were approved for this purpose. Delivery free of duty was allowed in the case of ninety-four samples of nicotine preparations, of which thirty-two were from imported goods. Essential oils are allowed to be used for flavouring tobacco, and nineteen samples were submitted for approval, five of which were found to contain prohibited

ingredients. Acetic acid is the only preservative which may legally be added to tobacco, and six samples of other preservatives, such as formaldehyde, and benzoic acid derivatives, could not be approved. The advice of the Department has repeatedly been requested on questions relating to methods of denaturing waste and offal tobacco for the purpose of ensuring that adequate provision for safeguarding the revenue was made in the proposals submitted. Rejected tea is allowed duty free for use in the manufacture of caffeine. In such cases the tea has first to be denatured under the supervision of Customs and Excise officers to prevent its possible use for human consumption, and samples, both of the denatured tea and the denaturants used, are submitted to the laboratory for examination to ensure that the process has been effectively carried out. The denaturants usually allowed under the Regulations issued by the Commissioners of Customs and Excise are lime and asafœtida. During the later stages of the war, however, manufacturers experienced difficulty in obtaining the latter article, and as a temporary concession permission was given to use naphthalene or other substances as denaturants. Asafœtida, being now more readily obtainable, is again being used whenever possible. The number of samples examined in this connection during the year was 749. Small quantities of "medicinal" tea occasionally imported received special attention in connection with the Regulations governing the importation of "dangerous" drugs. The examinations for the Customs and Excise Department now include the analysis of imported colours, inks, perfumes, and other goods to ascertain whether they contain synthetic dyes or intermediate products, the importation of which is prohibited except under licence. Ninety such samples were examined during the year. Samples of medicines, or articles offered for sale as medicines, are examined in connection with questions of liability to duty, and included pills, powders, herbs, liniments, oils, and other remedies. Other samples of medicinal articles are analysed in order to establish their identity or their medicinal character, or in connection with import restrictions and the opium and cocaine Regulations. The total number of these samples was seventy-eight, exclusive of a large number of medicinal preparations examined for other Government Departments. Goods from abroad, entering the country by parcels post, are inspected by Customs and Excise officers stationed at the various depôts, and, if suspected to be of a dutiable character, are sampled and sent to the laboratory for examination as to liability to duty. The number of such samples, consisting mainly of perfumery, essential oils, toilet preparations, and proprietary medicines, was 1,455. The Regulations of the Ministry of Agriculture require the periodical dipping of sheep in a bath prepared from a dip which has received the approval of the Ministry. In applying for the approval of a dip, the manufacturer submits a sample together with the formula according to which the dip has been prepared, and both formula and dip are forwarded to the laboratory. In some cases the formula shows that the dip made as prescribed, or the bath prepared at the dilution proposed, would not contain a sufficient quantity of those ingredients (arsenic, tar acids, nicotine, sulphur) which are considered effective for the cure of sheep scab. In such cases the formula is returned to the makers for amendment. Where the formula is satisfactory the dip is analysed to ascertain whether it has been made according to the formula. Samples of the dips as sold for use, as well as samples

of the bath-in use during a dipping operation, are also occasionally examined to ensure that dip and bath are of the approved strength. Of eighty-six samples submitted during the year, thirty-six were reported as defective. In connection with an investigation as to the composition of oysters undertaken for the Ministry of Agriculture and Fisheries it was found that oyster meat in the fresh condition contains from 76 to 82 per cent. of water, 1.5 to 2.5 per cent. of fat, 9 to 12 per cent. of proteins, 4.5 to 8 per cent. of carbohydrates (mainly glycogen), and about 2 per cent. of mineral matter. In connection with the Dangerous Drugs Act the officers of the Customs and Excise forwarded ten samples of preparations suspected of containing "dangerous" drugs and samples of powder found on persons alleged to be dealing illicitly in cocaine were examined for the police. Notable quantities of bromine were found to be present in samples of concentrated brine sent to the India Office from India, and an important observation was the presence of potash salts and the comparative ease with which potassium chloride of a high degree of concentration could be obtained. For the Disposal Board 400 milligrams of radium was recovered as bromide from luminous dials, gunsights, etc. For the Board of Trade 203 samples of potash salts taken from supplies from Germany were analysed. One of the three parts into which each sample was divided was examined here, a second portion being analysed in Germany, while the third portion was retained in a neutral country for analysis there in case of dispute. In a number of cases the results obtained here differed considerably from the figures supplied with the consignment, but there were only a few cases in which the Germans asked for the analysis of the third portion. The result of the reference was in all cases in substantial agreement with the analysis here. Thirty-six reference samples were examined during the year under the provisions of the Sale of Food and Drugs Acts, these including thirty-three milks, one sausage, one butter, and one lemon-squash. In thirty-one cases the results were in agreement with those of the prosecuting analyst. The sample described as "lemon-squash" contained only a small proportion of lemon constituents, the greater part of the acidity of the sample being due to the presence of free phosphoric acid. The report concludes with a reference to the special features of the work of the laboratory during the period 1909-1920, when Sir J. J. Dobbie was Government chemist. It was during this period that the laboratory was constituted as a separate Government Department under the title of "The Department of the Government Chemist."

Scientific Progress

Temperatures under this heading are on the Centigrade scale.*

French Oil of Turpentine.—Pariselle has ("Comptes Rendus," 1921, 1496), by careful fractionation of French turpentine oil, separated both α -pinene and β -pinene from the oil. He gives the characters of the two terpenes as follows:

	α -pinene	β -pinene
Boiling-point at 760 mm. ...	153°5'–154°5'	163°–164°
" " 32 mm. ...	62°	71°5' (at 34 mm.)
Specific gravity at 0° ...	0.8748	0.8848
Refractive index at 13 mm. ...	1.4690	1.4780
Specific rotation ...	–43°48'	–19°8'

With hydrobromic acid, α -pinene gave a solid hydrobromide melting at 94°, boiling at 94° at 12 mm., and having a specific rotation of 27.95°; it also yielded a liquid hydrobromide boiling at 96° at 12 mm. The same compound was obtained from β -pinene.

Pharmaceutical Society of Great Britain

Council-meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on November 2, Mr. E. T. Neathercoat (President) in the chair. The absent members were Messrs. Currie, Skinner, Wolff, and Young. The President intimated that there were no questions.

ELECTIONS AND RESTORATIONS

Thirty-three persons were elected members, and thirty student-associates of the Society; eleven persons were restored to the Society. The registrar reported there had been 159 registrations of apprentices as students since the last meeting.

ELECTION OF EXAMINERS

The President intimated that at a meeting of the Council held on the previous evening the following were appointed examiners for England and Wales and Scotland:

Barlow, T. O.	Hocking, F. A.	Purvis, John E.
Berry, Harry	Jennings, J. A.	Salisbury, E. J.
Browne, William	Jinks, J. C.	Shepherd, W. F. J.
Corfield, C. E.	Kirkaldy, P. H.	Smith, H. L.
Evans, John	Kluge, H. J.	Smithells, A.
Farr, E. H.	Lacey, H. B.	Taylor, A. L.
Furnival, S.	Lewis, W. H.	Tickle, Thomas
Gamble, F. W.	Mackie, H. B.	Wallis, T. E.
Gulliver, W. F.	Nunn, A. W.	Warner, C. H.
Haas, Paul	Peck, E. S.	Wright, Robert
Hamerton, J.	Peck, J. W.	Young, A. E.
Harvey-Gibson, R. J.	Preston, E.	
	Price, T. S.	

DIVISIONAL SECRETARIES IN SCOTLAND

It was moved by Mr. Guthrie, seconded by Mr. Rowsell, and unanimously agreed, that the divisional secretaries in Scotland be appointed for the ensuing year in accordance with the list submitted by the North British Branch (see p. 62).

CORRESPONDENCE

A letter from the secretary of the Sheffield Pharmaceutical and Chemical Society, embodying a resolution passed by that body, was read, asking if the Council was taking any steps to secure proper representation of pharmacists in the preparation of future issues of the British Pharmacopoeia, and suggesting that the lines laid down by the late Mr. J. C. Umney in 1913 for the representation of pharmacists should receive special consideration. The President stated that there was a special report on the subject dealt with in the letter which the Council would consider later in the meeting.

EDUCATION COMMITTEE

The report of this Committee stated that in the light of a letter from Mr. F. A. Hocking in regard to a communication signed jointly by nine hospital pharmacists, it was recommended that the Council set up an advisory committee consisting of representatives of pharmacists engaged in hospital work, with representatives of the Society and of the Public Pharmacists' Association, to consider the question of practical training in hospitals. A supplementary recommendation was that the following bodies be asked to nominate representatives to serve on the Advisory Committee: Public Pharmacists' Association (three); Incorporated Association of Hospital Officials, Pharmacists' Section (three); National Association of Women Pharmacists (one). The Committee considered certain applications for approval and the recognition of schools under Part I. of the Qualifying examination regulations, and had approved the Accrington Secondary School, the Southport Technical School, and the Wellingborough Technical Institute for chemistry and physics. Other applications were deferred for inspection of the schools concerned. The Vice-President raised the point whether it would not be possible to obtain the inclusion of schools recognised for the purpose of Part II. of the Society's Qualifying examination in the list of exempted institutions under

the Dangerous Drugs Act Regulations, and it was recommended that the Home Office be approached with a view to obtaining exemption for schools recognised for Part II. The Committee considered the remit from the Council concerning the possibility of accepting the certificates granted by the Union of Educational Institutions, and recommended that no action be taken in this connection.

The report was adopted without comment.

FINANCE COMMITTEE

The financial statement is summarised as follows: Receipts since last meeting, including a balance of £615 9s. 2d., amounted to £7,707 2s. 9d., comprising the following items: Penalties and costs, £70 6s. 4d.; school-fees and deposits, £2,545 13s.; examination-fees, £56 15s.; registration-fees, £433 2s.; subscriptions, £36 4s. 6d.; "Pharmaceutical Pocket Book," £15 1s. 1d.; pharmaceutical press publications, £9 12s. 2d.; sale of registers, 17s. 6d.; "Journal," £680; interest on investments, £328 16s. 6d.; unappropriated subscriptions, £389; sundry receipts, £16 5s. 6d.; transfer from deposit account, £2,500. After deducting £7,385 7s. 9d. for payments ordered at the last meeting, there was a balance of £321 15s. The other balances were: Benevolent Fund (current account), £1,139 15s. 9d.; Benevolent Fund (donation account), £250 5s. 10d.; War Auxiliary Benevolent Fund, £710 11s. 11d.; Orphan Fund, £300 18s. 5d. The report recommended that accounts amounting to £3,471 16s. be paid, and that the action of the secretary in making payments amounting to £643 10s. 3d. be approved. The Committee had before them inquiries from one or two of the tenants at Wandsworth and Shortlands as to whether the Society was prepared to sell the freehold, and, if so, at what price. They considered the matter in consultation with the Society's surveyor, and recommended that the secretary be authorised to negotiate with the tenants at Shortlands for the sale of freeholds at a sum equivalent to not less than twenty-six years' purchase, and that no action be taken in regard to the other freeholds. It was recommended that the following amounts be transferred to deposit account: Benevolent Fund (current account), £800; Benevolent Fund (donation account), £250; War Auxiliary Benevolent Fund, £450; Orphan Fund, £300; and Ransom Research, £350—a total of £2,150.

The report was adopted without discussion.

BENEVOLENT FUND

The report of this Committee recommended payment of grants varying from £5 to £26 to ten applicants for assistance. The sum of £57 14s. 1d. had been bequeathed to the Fund by the late G. A. Thompson, Paddock Wood. Mrs. Hunt, a beneficiary under the late John Cripp's legacy, died in September, and the sum of £2,000 now reverted to the Benevolent Fund.

Miss Buchanan announced the following special contributions to the Fund: Messrs. Atkinson, Southend (weighing-machine), 16s.; C. Bayley, Uppingham (collecting-box), 12s. 5d.; A. C. Bodey, London (donation in memory of the late Colonel Harrison), £1 1s.; F. Ellis, Minehead (donation), £10 10s.; F. March, Torquay (collecting-box), £1 4s. 6d.; Newcastle and District Chemists' Association, £95; Norwich and District Pharmacists' Association, £4 15s.; K. J. Padwick, Brighton (collecting-box), £1 14s.; Mrs. E. M. White, London, £2 5s.

The report was adopted.

WAR AUXILIARY BENEVOLENT FUND

The report of this Committee showed that four applications for grants had been considered, and grants of from £20 to £30 were made. An ex-Service chemist and druggist, who borrowed £400 to purchase a business, applied for assistance. The Committee deferred decision, and requested the applicant to appear for an interview at next meeting. The following statement of the expenditure at the July examination was received and approved: Grant of £800; fares paid in London, £538 2s. 9d.; fares paid in Edinburgh, £237 14s. 3d.; leaving a balance of £24 3s.

Mr. Parry intimated that a report on the general state of the Fund had been discussed by the Committee and would be circulated at next meeting.

ESTABLISHMENT COMMITTEE

The report of this Committee stated that a special report of the Dean, intimating that part of the ceiling in the chemistry laboratory had fallen, was received, together with a report that the architect had found the ceiling in a dangerous condition, requiring immediate attention. The work was accordingly put in hand; this action was approved.

This was all the public business. The meeting lasted for only fifteen minutes.

North British Branch

A MEETING of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on October 26, Mr. G. Shiach Kitchin in the chair. There were present: Messrs. Arthur, A. Currie, W. L. Currie, Dick, Fisher, Forbes, Guthrie, Jack, Kitchin, D. G. Mackenzie, T. Mackenzie, McLaren, McNab, McVittae, Milne, and Murray.

DEATHS

The chairman said he had to report that the Society had lost by death Mr. Alexander Noble, Ph.C., Edinburgh (*C. & D.*, August 20, p. 53). From 1865 till 1879 Mr. Noble was a member of the board of examiners. He was also for many years a member of the old Council of the North British Branch, and one of the first members of the newly constituted Executive in 1886.

He had also to report the death of Mr. William Giles, Aberdeen, who died on August 29 (*C. & D.*, September 17, p. 45). Mr. Giles was a well-known personality at meetings of the British Pharmaceutical Conference, and was also a member of the General Council of Panel Chemists (Scotland) and of the Pharmaceutical Standing Committee (Scotland). He gave himself with great regularity and assiduity to any work he undertook.

NOMINATION OF EXAMINERS

On the report of the committee for nomination of examiners, the following resolution was unanimously adopted: "That Professor Alfred Archibald Boon, Edinburgh; Dr. George Coull, Edinburgh; Dr. Robert Stewart MacDougall, Edinburgh; Mr. Martin Meldrum, Ayr; Mr. John Henry Ramsay, Glasgow; Mr. Charles Stephen, Dundee; Mr. Thomas Stephenson, Edinburgh; and Mr. Thomas Wilson, Burntisland, be nominated for election by the Council as members of the Board of Examiners for Scotland for 1922." It was further agreed, in the event of the Council deeming it expedient to appoint additional examiners: "That Dr. Leonard Dobbin, Edinburgh; Mr. James Jack, Arbroath; and Mr. George Fowlie Merson, Edinburgh, be nominated to act as a reserve."

GENERAL PURPOSES COMMITTEE

It has been arranged that the first evening meeting of the session should be held on November 30, when the address will be given by Dr. W. G. Smith, B.Sc.

There was submitted a communication from the secretary to the Convention of Royal Burghs to the effect that a special committee was dealing with the matter of the sale of methylated spirit on the lines indicated at the last meeting of the Executive. It was agreed to remit the matter to the General Purposes Committee, with a suggestion that members of the Executive might send any information and proposals as to practical measures that might be taken to mitigate and put an end to the prevalent evil of methylated-spirit drinking, and that the General Purposes Committee should formulate proposals and endeavour to co-operate with the committee of the Convention of Royal Burghs.

EDUCATION COMMITTEE

Mr. Arthur reported on the remit to the Education Committee. It was agreed that the remit might be continued, and that meantime the papers should be circulated to members of Executive with a request that they make any suggestions to the Committee.

Reference was made to a communication from an apprentice in Ireland with regard to recognition of shop experience in an Irish pharmacy being recognised as meeting the requirements of the regulations for the Qualifying examination. Reference was also made to the case of a student of pharmacy who had taken the degree of B.Sc., and raised the question as to whether the curriculum in chemistry and physics for his degree could be counted as entitling him to enter for Part I. of the Qualifying examination, although taken prior to registration as a student under the Pharmacy Acts. It was agreed that these matters be remitted to the Council.

PARLIAMENTARY COMMITTEE

On a report from the Parliamentary Committee, various points with reference to the Dangerous Drugs Act Regulations were considered, and the present position in regard to the taking of a test case was explained.

It was agreed that the Committee should continue to watch the situation with regard to the Proprietary Medicines Bill.

Attention was also directed to the Safeguarding of Industries Act. From a reply in the House of Commons, it appeared the Board of Trade understood they had no discretion as to including in the list all substances which came within the classification scheduled in the Act. All B.P. chemicals were scheduled, and, indeed, all chemicals mentioned in such comprehensive handbooks as Squire's "Companion" and Martindale's "Extra Pharmacopeia." This seemed a much wider scope than even the supporters of the Act anticipated, and might have a very serious effect in raising the cost of medicinal chemicals, and, incidentally, increasing the drug expenditure under the National Health Insurance Acts. It was remitted to the Parliamentary Committee to take any action that might be necessary in this connection.

LOCAL ORGANISATION

There was submitted a complete list of divisional secretaries in Scotland nominated for appointment by the Council for 1922. The only changes were: Mr. J. W. Plenderleith, Montrose, in place of Mr. John Hutton, Brechin, retired, for the Brechin division of Forfarshire; and Mr. George Shiach Kitchin, Glasgow, in room of Mr. Thomas Dunlop, retired, for the East Renfrew division of Glasgow. It was agreed to convey the cordial thanks of the Executive to Mr. Hutton and Mr. Dunlop.

It was reported that the Scottish Pharmaceutical Federation had appointed a corresponding committee to that appointed by the Executive at the last meeting, and that arrangements had been made for a meeting of the joint Committee convened by the chairman of the Executive according to the arrangement.

PUBLIC HEALTH MATTERS

Attention was directed to the movement in public health matters relating to tuberculosis, school clinics, pensions clinics, child-welfare centres, and hospitals, in connection with which action was being taken to secure that pharmaceutical service should be organised on the general principles embodied in Section 15 (5) of the National Health Insurance Act, 1911.

A MATRICULATION DIFFICULTY

A communication was submitted from a pharmaceutical chemist who had applied to have the benefit of Section 2 of the London University Regulations, applicable to certain classes of persons for examination before the board of examiners under Statute 116 instead of their entering for the ordinary matriculation examination of the University. The classes mentioned include chemists who possess qualifications conferred as the result of an examination. The pharmaceutical chemist referred to had received a reply to the effect that pharmaceutical chemists are not eligible to enter under Section 2 of the Regulations relating to the examination held under Statute 116. The point at issue was that, apparently a pharmaceutical chemist was not recognised as a chemist. It was agreed to transmit the letter and papers to the Council for consideration.

Festivities

Scarborough (Junior) Pharmacy Whist-drive

AN enjoyable whist-drive and dance was held on October 26 by the Scarborough Junior Pharmacy Club. The M.C.'s were (whist), Mr. H. M. Hirst, (dance) Mr. G. E. Bird. Prizes were presented by Mrs. Eyre to the following: Ladies—(1) Miss D. Noble; travelling, Miss O. Roberts; consolation, Miss Josey; spot dance, Miss Bowes. Gentlemen—(1) Mr. E. Parker; travelling, Mr. J. Graves; consolation, Mr. E. Hunt; spot dance, Mr. Stephenson.

West Ham Chemists' Gathering

THE West Ham Association of Pharmacists held a social gathering on October 27. Mrs. Desmond presided at the piano. Songs were rendered by Miss Olive More, Miss Davis, Miss Barclay, and Mr. C. Potter. Mr. Dutton (ventriloquist) and Messrs. Soper and W. Potter (dramatic recitations) also contributed to the programme. The President (Mr. Clifford Jones) proposed a vote of thanks to the artists, to which Mr. Dutton and Mr. W. Potter replied.

Portsmouth Pharmacists' Dinner

FOLLOWING the afternoon meeting (p. 67), the Portsmouth Pharmacists' Association dined at the Café Royal, where Mr. Keall was the guest of honour. The President and his wife were supported by seven Past-Presidents of the Association, Messrs. T. A. White, W. A. Bell, C. H. Baker, T. O. Barlow, T. Postlethwaite, T. Brewis, and J. W. Rhodes. Mr. Keall gave the "Portsmouth Pharmacists' Association," and congratulated them on their zeal and business-like ability, which made them a model constitution for the whole country. "The Ladies" was proposed by Mr. J. W. Rhodes, and Mrs. W. H. Bown responded. Advantage of the occasion was taken to present Mr. W. R. Atterbury with a piece of furniture as a token of thanks for his five years' service as hon. secretary. This was handed over by Mr. Brewis. Pleasant items in the musical programme were contributed by Mrs. W. L. Egerton, Mr. F. Weight (S. Maw, Son, & Sons, Ltd.), and Mr. Lovatt, while Mr. W. H. Bown proved an efficient accompanist.

Complimentary Dinner at Wolverhampton

THE Staffordshire Pharmacists' Association entertained to a complimentary dinner at the Star and Garter Hotel, Wolverhampton, on October 27, two of their members, Mr. T. W. Garland (Cannock) and Mr. F. J. Gibson (Wolverhampton). The chair was occupied by Mr. J. H. Whitehead (Walsall Wood), President of the Staffordshire Association, and among the guests were Mr. E. T. Neathercoat, President of the Pharmaceutical Society of Great Britain, and the Mayor of Wolverhampton (Councillor James Thompson). The toast of "The Pharmaceutical Society" was proposed by Alderman W. G. Cross, of Shrewsbury, who assured the President of the loyalty of the Midland members, and paid a tribute to the work of the general staff. As a member, and past chairman, of the Benevolent Fund Committee he mentioned that twenty new annuitants had been added to the Fund this year. The President's response dealt at length with the various activities of the Society. Pharmacy, he said, had been passing through rather a trying time during the past year or two. The affairs of the Pharmaceutical Society had been in the melting-pot, but they were emerging, as the result of their self-imposed litigation, a stronger and better equipped Society than they had been at any other period of their history. He urged local members to continue to support the Pharmaceutical Society. He added that the Society was carrying out a new system of organisation, whereby there would be established throughout the country branches of the Pharmaceutical Society with special functions, and the matter would be placed before the local associations, he expected, in the next few weeks. Mr. E. M. Mellor (Uttoxeter), having proposed "The Town of Wolverhampton," the Mayor mentioned in his reply that there are three pharmacists on the Town Council. In speaking of the

pharmacy of other days, he said old customs are changing, but he hoped that the change would not mean disappearance of the lights behind the coloured bottles in the shop windows. The toast of "The Guests of the Evening" was proposed by Mr. Whitehead, who reminded his hearers that Mr. Gibson presided at the meeting in 1912, when Mr. Garland was elected the first President of the Staffordshire Pharmacists' Association, an office which he held until October 1920. Mr. Gibson had served on the Council of the Pharmaceutical Society, and Mr. Garland was the first chairman of the Staffordshire Pharmaceutical Advisory Committee. Responding, Mr. Garland said he had never wanted to be in the limelight, but in 1912 he found himself their representative on the Staffordshire Insurance Committee, and the work had been very interesting. Mr. Gibson's connection with the Pharmaceutical Society, he said, extended over half its lifetime, for he passed his examination in 1881. They in Wolverhampton, he went on, were fortunate in being able to educate their apprentices and junior assistants in Part I. of their examination at the Municipal Technical School, and they need go no further than Birmingham to enable them to study for Part II. Other toasts followed.

College Notes

PHARMACY CIRCLE AT GORDON'S COLLEGE

A MEETING of the pharmacy students at Robert Gordon's Technical College, Aberdeen, was held recently, to consider the reconstitution of the Pharmacy Circle, the functions of which are of an educational and social nature. Mr. Munson was elected *President*; Mr. Camie, *Vice-President*; and Mr. W. A. Park, *Secretary and Treasurer*. Mr. E. G. Bryant, B.Sc., Ph.C., head of the pharmaceutical department of the College, gave an address, on October 28, on "Pharmacy—a Trade or Profession." After indicating that pharmacists are traders and also professional men, Mr. Bryant spoke hopefully of the future. A discussion and a vote of thanks were followed by tea.

BIRMINGHAM SCHOOL OF PHARMACY

THE inaugural meeting of the Birmingham School of Pharmacy took place at the Technical School, Suffolk Street, on October 26. Mr. J. W. Atkinson (President of the Birmingham Pharmaceutical Association) occupied the chair, and Mr. E. Saville Peck (ex-President of the British Pharmaceutical Conference, and a member of the Pharmaceutical Society's Board of Examiners) presented medals to the successful students of the last session. The silver medal of the Birmingham Pharmaceutical Association was gained by Mr. P. Whitworth, and the bronze medal by Mr. J. H. Spencer. Mr. Peck spoke of the pleasure it afforded him to address the students. He recalled the incidents which led to the formation of the school in 1919, and congratulated the principal, Dr. W. E. Sumpner, and his staff on the progress and success which had attended the school since its inception. He reviewed in detail the great changes which had taken place in pharmaceutical education within recent years and the efforts that had been made to bring the training of apprentices in pharmacy more into line with that of the medical and dental professions. This coming session would be the last one in which ex-Service men would be trained under the Ministry of Labour scheme, and it now behoved the local Associations and the Associations of the South Midland Federation to make the school a permanent institution by seeing that their apprentices were sent there for training. He would particularly urge all pharmacists to impress upon their apprentices the necessity of registering with the Society prior to beginning their apprenticeship, otherwise much inconvenience and unnecessary hardship would be incurred. Mr. Peck added that he was glad to hear that a course was commencing in January for the Major examination. Dr. Sumpner, in moving a vote of thanks, commented on the large number of successes which the school had obtained in the recent examinations, and expressed his firm conviction that the future of the school held bright prospects. A cordial vote of thanks to the chairman closed the proceedings.

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Reports from Local Centres

ENGLAND

Blackpool.—The chairman of the Insurance Committee, in a review of the year's work on October 31, said there are now thirty-five chemists on the panel, an increase of six on the year. There were 49,000 prescriptions dispensed by the chemists, at an average cost of 10.18d., compared with 6.06d. in 1916-17. There had been no complaints against doctors or chemists.

Bolton.—The number of prescriptions issued in 1920 was 210,389, with an average cost of 9½d., the total cost being £8,547 1s.

Kent.—At a meeting of the Insurance Committee, on October 26, the medical benefit sub-committee recommended that the clerk be authorised to arrange for taking samples from the county panel chemists and to obtain the necessary prescriptions from Insurance practitioners, the report of the analyst to be submitted to the analysis and medicines sub-committee. Mr. Pearson, a member of the sub-committee, proposed an amendment under which the ordinary procedure of the Sale of Food and Drugs Acts would be carried out, and other members urged that the chemist ought to be treated as any other tradesman in regard to the purity of the articles he sold. Mr. Pearson's amendment was ultimately carried.

London.—A meeting of the Insurance Committee was held on October 27, Sir Wm. Neill presiding. The Finance Sub-Committee recommended the payment of accounts amounting to £242,925 7s. 10d. Included in these was the sum of £13,915 14s. 1d. to chemists. The accounts were passed. The Finance Sub-Committee also reported that they had sanctioned advances amounting to £919 and £709, being made to the Panel and Pharmaceutical Committees respectively, on account of administrative expenses during the year. The action of the sub-committee was approved. The Pharmaceutical Service Sub-Committee reported that an insured person complained that he was unable to obtain medicine from a chemist on the panel. They had interviewed the insured person and his wife, together with the chemist concerned, and had arranged to refund the insured person the sum of 9s. for travelling expenses. The chemist was unable to supply owing to his having no water, and as this was a circumstance over which he had no control, he was held not to be culpable. The report was adopted. The sub-committee also reported that an insured person had alleged that a panel chemist had refused to dispense a prescription for him. The statement of the manager was that no duplicate was attached, and the patient refused to give it up. The sub-committee was of opinion that the chemist did not refuse to dispense the prescription, but that the insured person was at fault. The report was adopted. The sub-committee further reported an insured person had complained that a firm of chemists refused to dispense a prescription for him. They had interviewed the insured person, together with the manager of the branch concerned. When the prescription, which was not marked "Urgent," was presented, it was just on closing-time. As several prescriptions had to be made up, the insured person was informed by the manager that he could supply the lotion, but the medicine would have to be held over until the following day. In the opinion of the Committee, the complaint had not been substantiated. The report was adopted. A question was raised, the sub-committee further reported, by a medical practitioner on behalf of an insured person to the effect that he was unable to obtain drugs which had been ordered for him by the doctor. The script was as follows: Yadiil liquid, 1½ oz.; aq. chloroformi, 12 ozs.; ol. morrh. c. malt, 1 lb. The first chemist stated that they could supply the malt and oil, but Yadiil is a proprietary, which he thought chemists were not allowed to supply. The second stated that he was out of stock. The sub-committee was of opinion that the

chemists concerned did not commit a breach of the terms of service, and the report was adopted.

Northamptonshire.—A meeting of the Insurance Committee was held on October 29. The estimates for administration in the year 1922, which were approved, included the pricing of prescriptions at £100. The medical benefit sub-committee suggested that the incoming Committee constitute a dispensing sub-committee under the Medical Benefit Amendment Regulations, 1921. The following payments were confirmed: the pricing of prescriptions, £26 9s.; and for drugs, £1,795 13s. 11d.

Sheffield.—At a meeting of the Insurance Committee, held on November 2, it was reported that the Ministry of Health has fixed December 31, 1921, as the date on which the West Riding Insurance Committee will transfer to the City of Sheffield the insured persons residing in the areas added to the city. The payment to the chemists for the month amounted to £1,182 5s. 7d.—The clerk recently presented the report of a special sub-committee appointed by the Medical Benefit Sub-Committee to confer with the representatives of the Panel and Pharmaceutical Committees regarding the proper completion of prescriptions by practitioners and the action to be taken by chemists who receive incomplete prescriptions. The Pharmaceutical Committee was represented by Messrs. J. T. Appleton, H. Antcliffe, G. R. Airey, H. G. Williams, and C. H. Hallatt. The following proposals were recommended for adoption by the representatives of the Panel and Pharmaceutical Committees, and submitted for the consideration of the Medical Benefit Sub-Committee:

Practitioners to give name and address of patient, date of signature, and signature of practitioner; incomplete prescriptions to be returned; prescriptions to be either according to the local formulary or written in full; drugs and medicines not in B.P., or B.P.C., to be dispensed according to local formulary; if quantities are not indicated, prescription to be returned; weight of lint and gauze ordered by area must be indicated on prescription; Where quantity of appliances is not specified script to be returned.

The conference, after discussion, stated that, in their opinion, in the interests of all concerned, samples of drugs should be periodically analysed. These resolutions were agreed to.

Walsall.—At a recent meeting of the Insurance Committee the chairman (Councillor E. Evans) said that the amount paid to chemists during the nine years that medical benefit had been in force was £32,370. The total cost of administration for the period had been £7,203, rather less than 4½ per cent. of the amount expended on medical and sanatorium benefits.

Warwickshire.—The Pharmaceutical Committee met at Leamington on October 27. The Insurance Committee having agreed that where insured persons did not choose a doctor they should be deemed to have chosen a chemist, it was resolved not to press for a sub-committee to be formed to deal with this matter. Mr. Davis, the secretary, was reappointed a member of the Insurance Committee. Sums were voted in payment of the registrar at the recent election, and a further payment voted to the Central Checking Bureau. Two areas were added to the list of those places where serious difficulty in obtaining medicines, etc., from chemists might occur, in one case because the chemist in the district was not on the panel. A report of the Central Checking Bureau was received, and it was decided to draw the attention of the Pricing Bureau to several mistakes made in April and May. It was specially urged that the greatest pains should be taken to provide an adequate pharmaceutical service.

Worcester.—At a meeting of the Insurance Committee held recently, the chairman (Mr. R. R. Fairbairn) said that the treatment given to insured persons since the formation of the committee in 1912 had been of a very high standard. With their sixteen medical practitioners and fourteen chemists they had had the best possible treatment. He quoted figures showing the progress made. The amount paid to chemists in 1912 and 1920 was £1,290 and £2,550 respectively. The number of prescriptions last year was 52,250.

SCOTLAND

Fife.—The following have been elected members of the Pharmaceutical Committee for the county of Fife; Mr. Andrew B. Arnott (Cowdenbeath); Mr. James Bisset (Burntisland); Mr. Robert F. Hughes (Methil); Mr. D. A. B. Leadbetter (Lochgelly); Mr. Robert S. Ramsay (Cardenden); Mr. Andrew Robertson, Sen. (Dunfermline); Mr. Charles Stewart (Kirkcaldy).

Pharmaceutical Standing Committee.—A meeting was held in the Pharmaceutical Society's House, 36 York Place, Edinburgh, on October 26, Mr. Thomas Guthrie in the chair. For 1920 the total Drug Fund for Scotland amounted to £159,368. Through the pooling system, under Article 25 (1) of the Medical Benefit Regulations, 1920, there had been sufficient to pay in full the drug accounts of all panel chemists; twenty-seven committees had shown a deficit and twenty-nine committees a surplus. Attention was directed to extraordinary discrepancies as to the rate of prescribing and the cost of medicines in different areas. Constant attention had been given to co-operate with the Scottish Board of Health and Insurance Committees in securing efficient and economical administration. For 1921 statistics were available from January to August. This period, compared with the same period for 1920, indicated a decrease in drug accounts amounting to £18,735. While the average price per form for 1920 was 16.77d., the average amount for the same period in 1921 was 14.10d. per form, being a decrease of 2.67d. This meant a corresponding diminution in remuneration to the chemist. The statistics also indicated that for January to August 1921, compared with the corresponding period for 1920, there was a diminution of 53,336 in the number of prescription forms dispensed. The cost of medicines had further been diminished by the action of Insurance Committees in purchasing panel practitioners where prescribing had been unjustifiably excessive. Attention was directed to circulars issued by the Scottish Board of Health with regard to the necessity for Insurance Committees reporting all cases in which panel chemists failed to send in prescriptions within the specified period. Small penalties had been imposed for late sending in of prescriptions, and there is still room for improvement. Through the courtesy of the Drug Accounts Committee of the Central Checking Bureau, a copy of the annual report had been submitted to each Pharmaceutical Committee in Scotland. The report indicated the successful working of the Central Checking Bureau system. There was an increase of approximately £26,000 in dispensing-fees paid to panel chemists during 1920 as the result of the new post-war agreement. It was reported that under the new sanatorium benefit scheme, transferred to local public health authorities, an arrangement had been made for the pricing and checking of prescriptions for public authorities in Scotland by the Central Checking Bureau, and up to date between fifty and sixty local authorities had entered into the arrangement. Many difficulties and irregularities had occurred in the carrying out of the dispensing of medicines or the Ministry of Pensions local clinics. Matters had been improved, however, and, fortunately, the scheme would gradually disappear. The election of Pharmaceutical Committees had been nearly completed. When the new committees had been fully constituted there would be a re-election of the General Council of Panel Chemists (Scotland) and the Pharmaceutical Standing Committee (Scotland). In the meantime the existing General Council and Standing Committee would continue to act. A letter from the Scottish Board of Health indicated that pharmaceutical representation on all Insurance Committees had been considered by the Scottish Board of Health, and some steps to secure such representation will be taken when the opportunity of fresh legislation occurs. Meantime, pharmacists have been nominated for appointment to the different Insurance Committees. It was submitted to the Committee on Drug Tariff, Statistics, and agreements to take the necessary steps in arrangements for 1922.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, November 8, on which day the samples will be posted. Students' reports will be received up to Saturday, November 19. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the opening exercise in

THE ANALYTICAL TOURNAMENT

for the current winter session. Students may forward six stamped addressed envelopes (marked on the top "Corner for Students"), to be utilised month by month for the "salts." We offer special certificates and prizes for the best series of reports submitted on the exercises to be set from November 1921 to April 1922 inclusive. The awards will be made to the students who obtain the highest aggregates of marks for their reports upon the whole six exercises, and will comprise:

First Prize.—Certificate of honour and books to the value of three guineas.

Second Prize.—Certificate of honour and books to the value of one and a half guinea.

Third Prize.—Certificate of honour and books to the value of 15s.

The competition is open to all pharmacy students who have not passed the Major examination in Great Britain or the Licence examination in Ireland. Former tournament prize-winners are disqualified from taking a tournament prize, unless it be a superior one to that previously gained. Besides the tournament prizes, the usual monthly awards will be made to junior students, viz.:

First Prize.—Books to the value of 15s. or thereabouts.

Second Prize.—Books to the value of 7s. 6d. or thereabouts.

These monthly prizes will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact *must be attested on their reports*. Students who adopt a *nom de plume* must adhere to it throughout the tournament.

SUPPLY OF ARTIFICIAL LIMBS.—A committee appointed to inquire into the arrangements for the supply and repair of artificial limbs to ex-Service men states, in its report issued on November 1, that the number of men who lost limbs during the war was about 41,000, of whom 3,000 were officers. The evidence given to the committee showed that there had been various complaints concerning the artificial limbs supplied for cases of leg amputation above the knee. Practically all cases have now been supplied with permanent artificial legs. For the year ended March 31, 1921, the total payments made by the Ministry for legs was £326,000, while the sum paid for repairs to legs and arms during the same year was £127,000. The average life of a wooden leg is estimated at four years, and that of a metal limb at eight years.

Associations' Winter Session

Belfast.—On October 26 the members of the Chemists' and Druggists' Society, Ireland, held a meeting at 11 Waring Street, Belfast. A discussion on trade topics was invited, the following subjects coming under review: The Dangerous Drugs Act, the proposed changes in the grade of registered druggists, and the position of the drug-trade under the new Northern Parliament. The President (Mr. Fred Storey), in the chair, gave an account of his year's work as their representative on the Pharmaceutical Council, Dublin. With regard to the registered druggists' grade, their pharmaceutical friends seemed anxious that the grade should be abolished, but the difficulty lay in the way in which to do this. He advocated the setting-up of a committee composed of representatives of the Pharmaceutical Council, Chemists' and Druggists' Society, and members of the trade, to investigate how far they could accept each other's ideas. He was convinced that it would be for the benefit of pharmacy that something should be done to wipe out this grade, as no other country had a similar qualification. He also referred to the degree of B.Sc. in pharmaceutical subjects which had been granted by the Queen's University in conjunction with the technical schools; and to interviews he and Mr. Culbert had had with representatives of the Queen's University and municipal technical schools. He urged those present to see that their sons, if they were putting them into the business, take the Matriculation examination, as quite a number of young men in the trade who had taken the pharmaceutical Preliminary examination, in after years found themselves impeded if they wished to enter for a profession by finding that this examination was not recognised by any of the professional bodies. He hoped a great number of students would take advantage of the facilities offered them, especially by the course of evening classes. Mr. S. Suffern also spoke of his work on the Council. The following took part in the discussion: Messrs. W. E. Wilson, Sam. Gibson, Rankin, Kells, Carse, Jack Walsh, Long, Nevin, Guthrie, Roberts, Gordon, Jamison, Anderson, Macaulay, Stevenson, and Sandford.

Birmingham.—The first meeting of the recently appointed Council of the Birmingham Pharmaceutical Association was held on October 31. Mr. J. W. Atkinson was re-elected *President*. The new members of the Council, Messrs. Bennison, Bramley, and Berry, were welcomed by the Chairman. The following officers were elected: *Vice-Presidents*, Messrs. H. H. Marshall and G. Knowles; *Secretary*, Mr. F. Smith; *Treasurer*, Councillor J. Poole; *Librarian*, Mr. F. H. Alcock; *Assistant Librarian*, Mr. H. Berry; *Auditors*, Messrs. F. R. Smallman and D. R. Whitley. The representative on the General Purposes Joint Sub-Committee is Mr. E. S. Francis, and the Programme Committee are Messrs. G. Knowles and E. W. Mann.

Croydon.—The Croydon Pharmacists' Association held the annual meeting recently, at which a report on the past year's work was given by the secretary (Mr. Dickinson). The treasurer (Mr. Sumner) announced an increased financial balance, and reminded the members that in the past twelve months their generosity had resulted in a donation of £25 to the Benevolent Fund. The retiring President, Mr. H. Cooper-Neve, was unanimously re-elected.

Dublin.—The Dublin and Provincial Retail Drug Association held a committee meeting on October 26, Mr. R. E. Campbell (President) in the chair. The following were also present: Messrs. A. Owen Wells, G. A. McLean Lee, D. M. Watson, W. F. Ellis, Robert Mellon, W. H. Boyd, Dr. J. A. Walsh, Sir Thomas W. Robinson, and Mr. R. J. Kidney, secretary. Mr. J. A. Deakin was co-opted a member of the committee in place of Mr. B. R. Allshire, resigned. The annual dinner will be held on November 8.

Dundee.—The annual meeting of the Dundee and East of Scotland Branch of the Scottish Pharmaceutical Federation was held on November 1, Mr. Charles Stephen, Ph.C., presiding. Mr. James Duff presented the financial state-

ment, which showed a satisfactory balance on hand. Officers were elected as follows: *President*, Mr. C. Stephen; *Vice-President*, Mr. J. R. Milne; *Committee*, Messrs. J. P. Ferrier, D. Dunnet, F. W. Robertson, J. Anderson, jun., L. P. Michie; *Secretary and Treasurer*, Mr. James Duff. The chairman reviewed the work of the Federation since the last meeting, particularly the new scheme of insurance against accidents. It was pointed out that every member of the Federation will be expected to take advantage of it, and it will entail a payment in addition to membership subscription. A draft rota for attendance in chemists' shops on public holidays was submitted and adopted. It was resolved to hold meetings more frequently than in the past. The chairman mentioned that if a further small addition were made to their membership they would be entitled to have two representatives on the Executive Council of the Federation instead of one as at present.

Leamington.—The Warwickshire Pharmaceutical Association met on October 27, Mr. Hutton in the chair. It was decided to form a Retail Pharmacists' Union section of the Association, consisting only of those who were members both of the Association and the Union, no further subscription to be required, and the officers to be the present officers of the Association. As the Association only meets quarterly a sub-committee was formed to deal with matters of urgency. Correspondence from the Union was then dealt with. The price of linseed oil in this month's minimum retail price-list was questioned as being too low, and the secretary instructed to communicate with the compilers. A vote of sympathy was accorded to Mr. Tonkin, Leamington, on the sudden death of his wife.

London (Co.).—The annual meeting of the London County Pharmaceutical Association was held on October 27, Mr. W. E. D. Shirliff (President) in the chair. There was a fair attendance of members to hear addresses by Sir William Glyn-Jones (secretary of the Pharmaceutical Society) and Mr. John Keall (chairman of the Retail Pharmacists' Union). Sir William referred to the unveiling of the memorial to the late Colonel Harrison by the War Secretary, on November 2. His speech on *Pharmaceutical Problems* covered a wide field embracing changes in the history of the Pharmaceutical Society to date. He pointed out that the distinction between a chemist's business and other businesses is due to the qualification of the pharmacist. As a result of the test case the Society is now more free to deal with education and qualification, and to develop scholarship work for the training of men who wish to fit themselves for any special services demanded by the public. In discussing organisation, Sir William said the Council do not want any hard-and-fast rules regarding branches of the Society; it is a matter for each Association to devise the best means for securing efficient branches of the Pharmaceutical Society and the R.P.U. In moving the adoption of the annual report, which was afterwards carried, Mr. Wing briefly dealt with each paragraph. He also urged the maintenance of a satisfactory and efficient Pharmaceutical Service under the Insurance Acts. Mr. John Keall, in his address, spoke of the formation of branches of the R.P.U., and said that there is no geographical limit. Within the Associations there should be branches of the Pharmaceutical Society and the R.P.U. The Associations have to meet the demand of the individual pharmacist, and, speaking of London, he said that in the London County Association there is an executive committee and a central office, with G. A. Tocher as secretary for the county. Where conditions allow, machinery should be set up by which each federated area the Local Association is sectional so to include in one section members of the Pharmaceutical Society, and in another members of the R.P.U. A Central Executive (representing those Associations) forming a link between the Associations, whereby representatives can freely discuss all questions and the opinion of each district. He therefore considers the good work of the London County Pharmaceutical Association should be continued. Mr. Keall referred

the various services of the R.P.U., and advised greater interest in the "Anti-cutting Record." He briefly referred to the Dangerous Drugs Act Regulations, and afterwards replied to questions.

London, S.W.—The South-West London Chemists' Association, at the invitation of A. & F. Pears, Ltd., visited the works of the company at Isleworth, where the party was received by Mr. W. E. Booth and by Mr. Pears. The whole process of manufacture, packing, and the various machines used were explained, and at the close tea was served in the works. Mr. Atkins (President) voiced the thanks of the Association, to which Messrs. Pears and Booth suitably replied.

Portsmouth.—The Portsmouth Pharmacists' Association held a meeting on October 26, at which Mr. J. Keall was the chief speaker. Mr. A. B. Sparrow presided, and a large attendance included several pharmacists from Southampton. Starting with the "test-case," Mr. Keall dealt somewhat cautiously with future pharmaceutical organisation. He insisted that there is the closest unity between the Pharmaceutical Society and the Retail Pharmacists' Union; but, whereas a large number of pharmacists reaped the benefits from the Society without contributing financially, the R.P.U. would confine its services to actual members. He then outlined the special schemes of the Union, which included fire and employers' liability, stocktaking, etc. The R.P.U. is not out for profit; chemists are good risks, and they should shun corporations out to take the full advantage of that fact. Plate-class insurance had been dropped. Mr. Wride complained of the number of stock preparations in the South-Western pricing district, but the President pointed out that Portsmouth is in the South-Eastern district. Mr. Keall thought it a matter of urgency, and promised to take it back with him for consideration.

Public Pharmacists.—The Public Pharmacists' Association opened the session on October 26, Mr. A. R. Melhuish, Ph.C. (member of the Pharmaceutical Council), residing. Dr. Moodie, M.D., gave an interesting lecture on "Psychology and Psycho-Analysis." In his opening remarks he referred to the various schools of psychology and showed how the "Behaviour" school was the most recent. Introspective psychologists believed in two principal psychological forces: The formation of opinion, or idea, and the feeling of pleasure or displeasure. The Behaviourist School studied simply what the individual did. He quoted the following three definitions of psychology: (1) The sum-total of human experience; (2) The science or process whereby the individual becomes aware and adjusts his actions accordingly; (3) Study of behaviour (McDougall), and defined the following terms used by modern psychologists: Cognition, depending on senses, as the process of knowing about an object; affect, depending on experience, as how one is affected, pleasantly or unpleasantly; conation, depending on instinct, as a conclusion formed instinctively, followed immediately by (a) action, which is neutralised by (b) satisfaction. He went on to say that the modern school believed that unconscious reasons play a great part in these processes. The conscious is for ever striving to delegate to the unconscious certain actions which are constantly repeated, so that they may be performed unconsciously or automatically, and showed how automatism as the result of long habit. He showed how thoughts are connected and work in a chain, giving a personal illustration. The unconscious mind, he said, never sleeps. He then went on to explain that a complex is the process of thinking consciously or unconsciously in terms of one's hobby; that the censor is the extraordinary power of the mind to sink unpleasant thoughts into the unconscious. Psycho-analysis, he said, had been of immense value in restoring shell-shock patients to health. Peaking of repression, a dream is always a repressed desire, and the aim of psycho-analysis is to bring repressions to the surface and free the sufferer from their harmful effects. He outlined how this is done, and showed its application also to crime detection. Rationalisation was the term given by psychologists to the explanation made by oneself of the things one does. This is generally a wrong explanation, made to excuse the non-performance

of actions which are considered a disagreeable duty. He illustrated this by showing how easy it was to make excuses to oneself for non-attendance at church on a wet day, whereas, under the same conditions, attendance at a theatre was considered imperative. He deplored the tendency to restrict consumption of alcohol in moderation among the working classes, as their lot was a hard one, their hardships many; and as they were unable generally to have recourse to books for temporary forgetfulness, an expenditure of a small sum in drink enabled them to bring their temporary comfortable surroundings vividly into their consciousness and to sink all their worries and mean troubles into the unconscious. He attributed to the high price of drink the cause of the present labour unrest. Referring to the large number of insane persons in the asylums, he regretted that psycho-analysis had not effected cures. In nearly every experiment failure was due to the inaccessibility of the patient. Practically all had fixed delusions, which entirely prevented the psychoanalyst from gaining their confidence, and unless some kind of "rapport" was first established no cure could be made. Votes of thanks to Dr. Moodie and Mr. Melhuish for presiding were accorded.

Women Pharmacists.—About eighty members and friends gathered at the annual meeting of the National Association of Women Pharmacists, on October 31, in the Lecture Theatre, 17 Bloomsbury Square, London, W.C. Miss Wardle occupied the chair until the arrival of the President (Miss Buchanan), at which Mr. E. L. Gardner delivered a lecture on *Photographic Proofs of the Existence of Fairies*. Some unique slides were shown, with explanations of the searching tests which had been applied to the negatives and the circumstances under which they had been taken. Professor Greenish operated the lantern.

East Anglian Federation

The quarterly meeting of the East Anglian Federation of Pharmacists was held in London recently. The President (Mr. S. T. Milbank, Bishop's Stortford) was in the chair, and delegates were present from the various Associations. Mr. P. R. Hill, of Gorleston, was invited to fill a vacancy on the Executive Committee. A discussion took place with regard to the incidents of the Dangerous Drugs Act. Mr. A. W. Nunn (Colchester) read an interesting paper on *Pharmacy for the Pharmacist*, advocating the manufacture and standardisation of galenicals by the pharmacist as the surest means of securing the highest standard of quality in these preparations, and at the same time providing proper and adequate training for apprentices. The President of the Pharmaceutical Society (Mr. E. T. Neathercoat) gave a brief outline of the proposals which the Council have under discussion with reference to the establishing of local branches of the Society. Through these local branches it might be advisable to carry on the local organisation of the Society and also possibly to further the scheme of education. It was proposed, so far as possible, to utilise the organisation of the present local Associations, but recognition could only be given to those who were members of the Society. He referred to the Major examination, and said that something would have to be done to equip men for the positions which, under the Ministry of Health proposals, would open up for the more highly-trained pharmacists. It was decided that the Cambridge Association be asked to invite the Federation for the next meeting at the beginning of January. A collection for the benevolent fund realised £1 6s. 6d.

M. JOSEPH FELIX ERNEST BOUGAULT, whose appointment as a professor at the Paris Faculty of Pharmacy was lately referred to in this column (*C. & D.*, August 20, p. 48), was born at Ligné (Loire-Inférieure) in 1870. At the age of twenty-three he was an "interne" of the Paris hospitals, in 1902 became head pharmacist of the Hérold Hospital, taking his Sc.D. degree the same year, and was elected a member of the Paris Society of Pharmacy in the following year. He was appointed assistant-professor at the Paris Faculty of Pharmacy in 1909. His published work includes researches in inorganic and biological chemistry.

Safeguarding British Industries

IS SANTONIN A FINE CHEMICAL?

The Board of Trade give notice that they have received a formal notice of complaint under the above sub-section from the Eastern and Russian Trading Company, of 8 Drapers Gardens, Throgmorton Avenue, E.C. 2, that santonin has been improperly included in the lists of articles chargeable with duty under Part I of the Act. The referee appointed by the Lord Chancellor will hear this complaint on Saturday, November 12, at 10 a.m., at the Offices of the Board of Trade in Great George Street, London, S.W. 1, and any persons directly interested in the matter should communicate immediately with the solicitors for the complainants, Stephenson, Harwood & Tatham, 16 Old Broad Street, London, E.C. 2, or with the Board, as they may desire.

DRAWBACK ON RE-EXPORTS

THE Chemical and Dyestuff Traders' Association in their latest circular to members state that they have been in further correspondence with the Customs authorities respecting the question of drawback in the case of goods which had already paid duty being afterwards re-exported. In the event of the goods being repacked and the original marks and numbers being removed, what proof, the Association inquired, would the Customs have, and how could the Customs satisfy themselves as to whether the goods had or had not paid duty. Repacking, it was pointed out, had been one of the most profitable British industries, and if satisfactory arrangements were not made the business might pass from this country. "If, for instance, aspirin is manufactured into tablets or constitutes a substantial ingredient in some other preparation, will a drawback be allowed on the percentage of aspirin contained in the tablet or product when it is exported? And in that case, how will the Customs be able to identify the aspirin which is contained in the tablet, and say whether it previously paid duty or not?" In their reply the Customs state that "a memorandum giving in detail the procedure for claiming drawback on the exportation of goods which have paid duty under the Safeguarding of Industries Act, 1921, is in course of preparation. The procedure will not preclude payment of drawback on goods which are not themselves changed in form or constitution between import or export, merely because they are repacked in this country. In such cases provision will be made for the acceptance of proof of payment of duty furnished by the production of officially stamped import invoices and the keeping of stock accounts, showing, *inter alia*, in respect of each description of article (1) the stocks in hand on October 1, 1921; (2) the quantities since imported, giving the dates of importation and the amounts of duty paid thereon; and (3) the several quantities disposed of day by day, distinguishing the goods exported from those delivered for home use. As regards the second point, drawback would not be payable on the export of an article containing a dutiable chemical or drug which in the process of manufacture of the article exported had been mixed with any other substance. If, however, the dutiable article is not mixed with any other substance, but merely changes its form in the sense that it has, e.g., been compressed from loose powder into tablets without any admixture whatever, it would not be regarded as thereby forfeiting its title to drawback on exportation."

MERCHANTS AND THE "KEY" LIST

In reference to the joint conference recently held at the London Chamber of Commerce, the Association has issued a circular to members inviting them to specify the articles which they desire to have excluded from the list. In the course of the discussion at the conference the case for the Association was stated at some length by Mr. Reynolds. He said that a number of important consumers' associations had been sounded on the question, and they were of opinion that by concerted action more might be accomplished than by each making representations on its own. At the present stage some of the consumers' associations of chemicals and dyestuffs occupied a tentative position until they saw some important body, with which most of them were affiliated, prepared to act in the interests of them all, and consequently they were watching further developments, but there was every reason to believe that the most important users of chemicals and dyestuffs in the great textile trades of the country were convinced of the necessity for action, and were disposed to favour that action being of a concerted nature. The Chemical and Allied Trades Section of the Manchester Chamber of Commerce had a membership of over 300, and consisted mostly of

importers, exporters, and users, who seemed to be impressed with what must be obvious to all—namely, that the Act was in its final stages rushed precipitately through Parliament at a time when Parliament had become rather satiated with a prolonged session. The experience of many of them with regard to the rulings of the Board of Trade and the experiences they had had in connection with the action of the Customs and Excise authorities all indicated that those who were administering the Act had no clear conception of what they really had to achieve, nor any definite principles upon which to work, as they themselves did not understand some of the rulings issued. Rulings were issued from day to day, or from week to week, and they were sometimes vitiated by rulings of quite a different kind in the following day or week. It was patent to a number of them who were connected with the chemical trade that those who issued rulings did not quite understand some of their meanings, or why the letter "R" was prefixed to certain articles. He understood that the exact meaning of the letter "R" was that it only applied to exceptionally pure qualities of chemicals, only the fine chemicals for analytical or pharmaceutical purposes, but it had been pointed out that a considerable number of chemicals imported even for industrial purposes were technically pure, and that the degree of purity was practically the same as that for analytical or pharmaceutical purposes. They issued a further ruling that if chemicals imported were technically pure, even if they were to be used for industrial purposes, it would be necessary for them to come under the Act, because there would be no way of discriminating between what was for industrial and what for chemical purposes.

REPLIES TO QUESTIONS IN PARLIAMENT

The revenue collected under Part I. of the Safeguarding of Industries Act from October 1 to 28 amounts to £14,956.

Ordinary camphor is not liable to duty under the Safeguarding of Industries Act, but synthetic camphor is subject to duty.

In view of the nature of the matters that are to come before the Referee appointed under the Safeguarding of Industries Act, it is not intended that cases arising under Section 1 (5) shall be heard in public, but the decisions will be published.

The ruling that the carbons in small dry cells for pocket flash-lamps fall within the heading of arc-lamp carbons has been reconsidered. It has now been decided that there is sufficient difference between the carbons in pocket flash-lamp batteries and arc-lamp carbons to take the former outside the scope of Part I. of the Safeguarding of Industries Act.

A notice has been issued by Gerhard & Hey, collecting and clearing agents, to the effect that the Customs officers have informed them that owing to the enormous amount of goods in hand under the Safeguarding of Industries Act further entries cannot be accepted. The statement was, however, denied on behalf of the Chancellor of the Exchequer.

For the purpose of Part I. of the Safeguarding of Industries Act the Board of Trade has adopted as a standard formula that optical glass is that type of glass, other than unworked spectacle glass, ordinarily used in imaging systems. Any attempt to define optical glass on the basis of constants is impracticable, said Mr. Baldwin, and no useful purpose would appear to be served by setting up a complex formula which would present insuperable difficulties in administration.

Mr. Kiley, who drew attention to the fact that at least 20,000 packages are being held up owing to the formalities insisted on by the Customs, was informed that the non-removal of the goods referred to is not due to Customs formalities, and so far as the Department is concerned delivery can be obtained without delay when the Customs entry has been presented and the goods produced for examination. The Customs Department is making every effort to facilitate the clearance of goods, and do not admit the suggestion that delay is due to any cumbersome procedure on the part of that Department.

The work in connection with the German Reparation (Recovery) Act and the Safeguarding of Industries Act respectively, is being performed by the existing Customs and Excise staff, supplemented by thirty-two extra temporary clerks for the German Reparations levy work and six for the Safeguarding of Industries work. The annual total cost of this additional staff, calculated at the mean of the salary scales, is £5,900 and £1,100 respectively. It has been necessary to employ the staff on overtime at the rate of the busier centres at a cost, to date, of about £3,000, the greater part of which is on account of German Reparations levy work.

Mr. Briant, who asked whether a consignment of toilet face-powders is detained by the Customs owing to the official in charge demanding a declaration from the importer as to the nature of any fine chemicals contained in the powder; whether, in view of the fact that the ingredients of this commodity are a trade secret which the maker refuses to divulge, the House can be informed what the Board proposes to do with the case; whether these goods are to be considered exempt from duty under Clause 4 of Part I. of the Safeguarding of Industries Act; and whether he will give instructions to the Customs officials accordingly so that they may know how to deal in future with matters of this kind, and so eliminate the delays to which traders are at the moment subjected. The reply was that in the absence of definite particulars of importation the consignment referred to cannot be identified.

Major Entwistle asked the President of the Board of Trade if he is aware that it is the considered view of the fine-chemical trade that about 75 per cent. of the total quantity of the synthetic chemicals imported into England are for re-export; that of these re-exports the great bulk cannot be imported and exported by way of transit under bond; and what steps he is prepared to take to assist traders to continue their export business, in view of the fact that it is not feasible under the present Customs Regulations to secure drawback of duty unless formalities are complied with which are unworkable in connection with such goods. Mr. Baldwin replied that the representations to the effect stated in the first part of the question have been made. Regulations as to drawback to be made under the Safeguarding of Industries Act are under consideration by the Board of Customs, and that there is no reason to anticipate that those regulations will prove unworkable.

Dr. Murray asked the President of the Board of Trade whether he is aware that a large number of proprietary articles of Continental origin included in the Key Industries Schedule of the Safeguarding of Industries Act are used by hospitals, and that, owing to the duty now imposed, these hospitals will have to pay much higher prices; and whether he is prepared to allow a drawback to these hospitals on such medical chemicals, in view of the low state of the finances of these institutions? Mr. Baldwin replied that a number of the commodities covered by the general chemical heading of the Schedule to the Safeguarding of Industries Act are no doubt of the kind stated. The experience of the war years showed, however, the grave danger of dependence upon foreign sources for important medical supplies, and the need of action to prevent, so far as possible, its recurrence, and he is not prepared to introduce the legislation necessary to give effect to the hon. member's suggestion.

Major M. Wood asked the President of the Board of Trade if he is aware that a considerable number of the 4,000 articles in the Fine Chemical Schedule of the Safeguarding of Industries Act are the registered trade-marks of German patented proprietary articles; if it would be advisable to give the chemical names, if known, of these substances instead of advertising the foreign trade-mark names; is it permissible for British manufacturers to prepare and sell such patented proprietary articles under the registered trade-marks? and, if not, whether he is prepared to delete such articles from the Schedule, in view of it not being possible to manufacture and offer them for sale without infringing existing trade-mark rights. Mr. Baldwin replied that he is aware that a number of the names appearing in the lists of chemical products issued under Section 1 (5) of the Safeguarding of Industries Act are registered trade names of German proprietary articles, but in the majority of such cases the equivalent chemical designation also appears in the lists. As regards the third part of the question, it is open to British manufacturers in certain cases to manufacture and sell such products under the German trade names. The lists are issued to remove doubts as to the commodities covered by the particular headings of the Schedule to the Act and for the convenience of traders.

Bandoeng Quinine Factory

THE annual report of the Bandoeng Quinine Factory for 1920 opens with the statement that on September 6, 1921, the factory celebrated its twenty-fifth anniversary. It was originally founded with a capital of 100,000 florins, which in the course of time was increased to 700,000 florins, and from modest beginnings grew to its present importance, largely as a result of a careful financial policy. In

the course of time it became a serious competitor to the other quinine factories, which made repeated attempts to induce it to join the quinine manufacturers' combine. This actually took place in January 1913, while in July of the same year the first Kina contract was concluded, which in 1918 was prolonged for a period of five years. With the outbreak of war in 1914 the quinine manufacturers' combine was dissolved, and various changes were made in the agreement between the cinchona planters and the manufacturers. Nevertheless, the co-operation between planters and manufacturers has proved distinctly beneficial to both parties. The factory was in a position to pay ever-increasing dividends; the amounts written off were large; while strong reserves were created. Hand-in-hand with the increasing volume of business the plant of the factory was extensively enlarged, whereby large sums were immobilised as capital. Further, on joining the combine of Dutch quinine factories the Bandoeng Factory undertook the obligation to provide a sum of 2,000,000 florins as working capital. The result was that the sums invested stood in no relationship to the company's capital, and the board therefore decided to increase the capital to 4,000,000 florins, by drawing upon the profits realised in 1919 and in 1920, of which 800,000 florins were to take the shape of ordinary shares, and 3,200,000 florins to be represented by 9 per cent. cumulative preferential bonds. This proposal was adopted by the extraordinary meeting of the company held on December 20, 1920, and approved by the Government on February 2, 1921. Consequently, on March 9 of this year, on presentation of dividend certificate No. 29, a 9 per cent. cumulative preferential bond of the nominal value of 1,000 florins was issued to the shareholders.

THE POSITION IN 1920

During the year the manufacturing activities proceeded normally. This was also the first year of collaboration with the Dutch and Amsterdam quinine factories, and about 320,000 kilos. of quinine were disposed of, bringing in about 17,900,000 florins. During the war the price of quinine rose, and remained at its high figure until the middle of 1920, there being an active demand for the various quinine salts. Suddenly the demand ceased in the last quarter of 1920. Apparently large stocks of quinine had been acquired by dealers in consequence of the liquidation of war stocks, and therefore the Dutch quinine, as well as other foreign quinine, factories, had only very small sales in Europe to record. This was a natural result of the general economic situation. In the first place, Russia, which formerly consumed annually about 80,000 kilos. of quinine, had for some time disappeared from the market as a buyer. In addition, many other countries were compelled to restrict their purchases of quinine in consequence of their depreciated currency, such as Austria, Hungary, Jugo-Slavia, the Balkan States, and Bulgaria. On the other hand, Italy and Greece continued to be large consumers of quinine, while a steady demand continued to come in from the various Asiatic countries. The consumption in the Dutch East Indies also increased, and its use, particularly in tablet form, has become more popular among the natives of the Dutch possessions in the Far East.

QUININE FOR HOME CONSUMPTION

In 1920 the factory saw itself compelled to increase the price of powdered quinine, reserved for the exclusive use of consumers in the Dutch East Indies, and sold at a specially low price, to the same level as the price charged for quinine for export. This step was taken in consequence of the large amounts of quinine which were being illegally smuggled out of the islands, with the result that quinine was offered abroad at a lower price than that charged by the factory. The amount of powdered quinine sold for inland consumption rose from about 2,000 kilos. in 1918 to no less than 7,000 kilos. in 1919, a result of the active smuggling out of the possessions, and then dropped to 1,100 kilos. during the first six months of 1921. However, the price of quinine tablets was not increased, but the great difference in the price charged for these quinine tablets, reserved exclusively for inland consumption, and the world market price, has been the cause of considerable anxiety to the board, on account of the inducement it offers to smuggling the cheaper product out of the islands. To put a stop to this illegal traffic it was decided to ration the retailers, unlimited amounts of the tablets being supplied only to bona fide undertakings, hospitals, and other institutions. The amount of quinine sold in the Dutch East Indies at a specially reduced price has steadily increased; in 1918 it amounted to 18,500 kilos., in 1919 to 28,500 kilos., and in 1920 to 30,000 kilos.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, November 3¹.

BUSINESS conditions show no improvement and none is now looked for during the remainder of the year. The few bright spots about the produce markets include a good export demand for camphor, both crude and refined, at higher prices. Zanzibar cloves are also an outstanding feature, prices having advanced substantially. Menthol on the spot is easier, but there has been a fair demand for parcels afloat chiefly for Continental account. Chamomiles are firm and not likely to be cheaper. Senega has shown rather more demand, with continued "bullish" advices from the other side. Balsam tolu is cheaper. Cod-liver oil, which is easier, continues to meet a fair trade demand as the price is reasonable. Shellac is steady. Interest has centred in the drug auction this week, a full report of which is given on p. 74.

Higher	Firmer	Easier	Lower
Camphor (crude and refined)	Senega Soda	Acetic acid	Aloes (Cape)
Clove oil	diethylbarb.	Aceto.e	Balsam tolu
Cloves (Zan.)		Acid oils	Bone grease
Homatropine		Aspirin	Codeine
Honey (new Jam.)		Cantharides (Ch.)	(alkaloid)
Soda sulphide		Cedarwood oil	Cottonseed oil
Tannic acid		Coconut oil	Creosote, B.P.
		Cod-liver oil	Malze starch
		Euonymin	powder
	Steadier	Fish oils	Orange oil (Sic.)
		Glucose	Hydrastine
	Potash permang.	Hexamine	Morphine salts
	Zinc dust	Ipecacuanha	Myrrh
		(Matto Grosso)	Potash bicarb.
		Kola	(Eng.)
		Lemon oil	Potash
		Menthol	bichromate
		Rape oil	Senna
		Soda hypo.	Soda benzoate
		Soda salicyl.	Soda bichromate
		Turpentine	Soda tartrate
			Vermilion
			Wood oil

Cablegram

NEW YORK, November 2.—Business is quiet. Senega has advanced to 80c. and cascara sagrada to 12c. Short buchu is also dearer at \$1.25. Mercury has advanced to \$39.00 and vanillin to 60c. per oz. Sweet oil of birch is cheaper at \$2.00, and hydrastis has declined to \$3.25 per lb.

Crude Drugs, etc.

ANTIMONY is very quiet, in spite of rather firmer American advices due to an enlarged demand. English regulus stands at £39 to £41 per ton for small lots, and foreign refined is quoted at £24 10s. c.i.f. Crude Chinese on the spot is called £17, and there are sellers to arrive at £16 c.i.f. White oxide is quoted £40, but business is possible at well under this figure.

BALSAMS are generally easier. Tolu is cheaper at 1s. 5d. per lb. spot. Peru is quoted at 7s. 6d., and for B.P. copaiba business is reported at 1s. 9d. per lb. for clarified.

CALAMUS ROOT is quoted at 30s. to 35s. per cwt. for natural and 70s. for peeled.

CAMPHOR (CRUDE) is dearer with spot sales of Chinese at from 3s. 2d. up to 3s. 5d. per lb.; good quality is now scarce on the spot.

CAMPHOR (REFINED).—A very fair business has been done, chiefly for Continental account at higher prices. Chinese slabs on the spot have been sold up to 4s. 3d. and Japanese at 4s. 3d. per lb., with further sellers. C.i.f. parcels have also been in demand, sales including Japanese for October-November shipment at 3s. 10d. and November-December at 3s. 9d. c.i.f., closing sellers at 3s. 10d. No

c.i.f. business is reported in Chinese owing to the rate of exchange favouring Japan; ½-oz. tablets are offered at 4s. 6d., and to arrive at 4s. 4½d. per lb. c.i.f.

CARMINE.—In one direction spot offers of pure, genuine, ex cochineal, are made at 22s. 6d. per lb. in tins.

CHAMOMILES remain firm, and owing to the scarcity of good flowers there is little prospect of cheaper prices. The nominal prices for good white new are from 280s. to 300s.; 1920, 230s. to 250s.; and old flowers, 180s. to 225s. per cwt.

COD-LIVER OIL.—Demand continues very fair, and prices, which closely follow the exchange, are easier. Finest non-freezing Lofoten oil is offered at 87s. 6d. to 90s. per barrel c.i.f. Our Bergen correspondent writes on October 31 that the demand is small, and the price has declined 5 crowns per barrel.

COLCHICUM ROOT is quoted at 9d per lb. c.i.f. to arrive.

GLUCOSE is 1s. easier, American guaranteed water-white for November delivery offering at 26s. 6d. per cwt., duty paid, landed terms.

LIQURICE ROOT.—Natural Levant is offered on the spot at 22s. 6d. per cwt. In the drug auction 42 bales woody natural Levant sold without reserve for account of whom it may concern at 17s. to 17s. 6d. per cwt.

MENTHOL continues easy on the spot, with sellers of Kobayashi-Suzuki at 22s. 6d. to 23s. per lb. A good business has been done in parcels afloat at between 19s. and 20s. per lb. c.i.f. for Continental account.

MERCURY.—The demand is more restricted, but sellers have as a rule maintained their terms at between £9 15s. and £10 per bottle. Export business with the Eastern markets has fallen off, and the market is somewhat uncertain. Owing to the weakness of the Italian exchange, buyers in the American trade have been holding back, and business has taken place in New York quite recently in Italian at \$37 to \$36 per flask. There have been frequent arrivals of Italian, which dominate the market, and users will only buy from hand to mouth. The stocks of this description held in bond have been accumulating for some time past. The lowest price recorded recently, duty paid, was \$35. American producers are not very eager to sell, while it is stated that very little, if anything, is being produced in the country.

PARAFFIN (LIQUID), of B.P. quality (s.g. 0.890), is offered at 7s. 6d. per gallon in 40-gallon steel drums ex works.

SAFROL is unchanged at about 3s. 3d. per lb. on the spot in large drums.

SENEGA is rather firmer and in slightly more demand on the spot at 4s. 3d. per lb. net. Mail advices continue to indicate that dealers are so far able to offer but little this season.

SHELLAC.—Prices are apt to fluctuate somewhat at the present relatively high level, but the position statistically is stronger than it was a month ago, warehouse stocks having been further depleted owing to very good deliveries. Calcutta is holding out for much stiffer terms, and it is thus difficult to replace stocks; hence holders are independent. The spot price of usual standard TN Orange quality closes at from 335s. to 340s., fine lemon is 440s., fine second orange 380s. to 390s., RL1 385s., AC cakey 290s., GAL 275s., and IG 230s. Futures on balance show little change, sales including October at 330s. to 335s., December 322s. 6d. to 330s., and March 315s. to 325s.

STARCH PRODUCTS.—Farina remains dull. The value of Japanese No. 1 is 27s. 6d. per cwt. c.i.f. for November-December shipment, and Dutch farina on the spot is still 27s. Maize starch powder is cheaper at 13s. per cwt. on the spot, and pure rice starch crystals is unaltered at £40 per ton.

TURPENTINE.—Somewhat more interest has been aroused amongst home consumers, and the market has shown a tendency to shape an upward course, with the premium on forward positions fully maintained. The distribution of supplies from the American seaboard to Europe appear to be of a conservative character, and there seems to be a well-rooted belief that an increase of activity at any time will result in an advancing market, while current rates can hardly be considered extravagant. Recent imports were on a fair scale, and the London stocks have

again increased to over 18,000 barrels. London closes 67s. per cwt.

VERMILION.—Makers have reduced their prices by 3d. per lb., quoting from 3s. 10d. to 4s. 1d. per lb. as to quantity.

Seeds and Spices

CAPSICUMS.—At auction 134 bags middling red Japanese were bought in at 70s. per cwt.

GROVES.—The present stock of Zanzibar cloves is only about 1,640 bales, compared with 9,719 last year. Several shipments are reported on the way, but these are not expected to help spot supplies very much. The first picking, it is generally agreed, has been short, one estimate giving the total at about 35,000 bales instead of a normal one of from 80,000 to 100,000 bales. The second picking does not as yet come into the reckoning, but if the present consumption of cloves were anything approaching normal, very high prices would be realised. Spot business has been done at from 1s. 5d. to 1s. 8d. per lb., closing on Wednesday at 1s. 7½d.; and to arrive the sales include September-November at 1s. 5½d., October-December at 1s. 4½d. to 1s. 5d., and November-January 1s. 6d. to 1s. 6½d. per lb. c.i.f.

GINGER.—At auction 331 bags new crop Jamaica offered and sold at full prices, including good medium slightly wormy at 177s. 6d., ordinary rather wormy 165s. to 170s., and common wormy, part mouldy, at 147s. to 157s. 6d.

NUTMEGS.—The unsold lots of West Indian at last week's auction have since been disposed of at full prices, and there is now little left in importers' hands and no advice of shipments coming forward. At auction 14 cases Penang sold at 6d. per lb. for limited defective, and broken very small defective at 4½d. to 5½d.

PEPPER continues easy. On the spot fair black Singapore has been selling at 3½d. per lb., and afloat has been done at 3½d. November-January and December-February shipment has also been sold at 3½d. per lb. c.i.f. Lampong is 4½d., Tellicherry 4½d., and Aleppy 4d. on the spot. At auction 124 bags Ceylon offered and 17 sold at 4½d. for good heavy brownish. White pepper is quiet and easier, Muntok offering at 7½d. to 8d. per lb. on the spot; to arrive, November-January and December-February shipment has been sold at 7½d. c.i.f. Singapore is 7½d. on the spot, and the value of November-January shipment is 7½d. c.i.f.

SEEDS.—Business is extremely small at the following prices: Anise.—Spanish, 72s. 6d.; Russian, 71s. per cwt. Canary seed.—Spanish, 100s.; Saffi, 92s. 6d.; Mazagan, 90s.; Larache, 70s. to 75s. Caraway seed.—Dutch, 32s. 6d. to 35s. Coriander seed.—Sound, 28s. 6d.; wormy, 13s. 6d. to 16s. Cumin seed, 55s. Dill seed.—Nothing to be had. Fennel seed.—40s. Fenugreek seed.—11s. to 11s. 6d. Hemp seed.—Manchurian, 23s. 9d.; Chilian, 21s. 9d. Linseed.—Morocco, 24s. 6d. Mustard seed.—Fine English mustard, 31s. 6d. per cwt.

Essential Oils

Price changes are comparatively few, and trade is not generally active. Most of the buying appears to be for export. Patchouli oil is very scarce and firm. White essential camphor oil is also difficult to find. Cedarwood is selling cheaper. Conflicting reports regarding geranium oils are current, but it is probable that the prospective rise has not quite materialised. Eucalyptus oil, it is anticipated, will soon see a revival in demand.

ANISE (STAR).—"Red Ship" on the spot is quiet with buyers at 2s. and sellers at 2s. 2d. per lb.; to come forward re-sellers quote 2s. 3d. c.i.f.

BERGAMOT on the spot is unchanged at from 22s. to 24s. 6d. per lb. for 37 to 39 l.a. Good business is reported done, for forward delivery, at an advance of from 6d. to 1s. on last week's c.i.f. figure of 22s.

CAMPHOR.—Some white, essential, has been sold on spot at 130s. per cwt. There are no stocks in dealers' hands. The c.i.f. price is 105s., and for parcels afloat, near at hand, 125s. to 132s. 6d. is quoted.

CASSIA.—For 80 to 85 per cent. c.a. 4s. 6d. per lb. spot is quoted, which is unchanged. To come forward prices are from 4s. 2d. to 4s. 4d. c.i.f.

CEDARWOOD on the spot is cheaper at 2s. 6d. per lb., and 2s. 5d. in drums.

CITRONELLA.—Ceylon is 1s. 5½d. to 1s. 5¾d. per lb. spot, which is a shade easier. Burmese is in good supply on spot at 2s. 6d. to 2s. 8d., according to quality. Java is nominal about 2s. 9d.

CLOVE.—In some directions distillers are booked up for several weeks. Prices are higher following the advance in the spice of about 4d. per lb., which is equivalent to a 2s. 6d. per lb. rise in oil. The present spot value of oil is accordingly 12s. to 12s. 6d. per lb., but, for a line, 11s. 9d. would be accepted in some directions. The advantage that second-hand holders have had is probably nearing an end, an indication of this being good orders from the Continent.

EUCALYPTUS.—Holders are anticipating an increased seasonable demand, and no further reduction of sound oil is anticipated at present. For 70 to 75 per cent. 1s. 9d. per lb. is the current quotation, higher percentages being dearer in proportion.

GERANIUM.—There are, as yet, no signs of the predicted advance; sales continue to be made at about 15s. per lb. for Bourbon, holders quoting up to 15s. 6d. Algerian is about steady at 23s. to 25s. A fair business has been done recently, and it is evident that some dealers do not anticipate that prices, in the near future, will rise very far. While some importers ask 26s. c.i.f., and even more to come forward, in other directions 22s. c.i.f. will readily be accepted.

LEMON is easier on the spot at from 3s. to 3s. 3d. per lb., according to brand. To come forward the c.i.f. figure is easier at from 2s. 9d. to 3s.

LEMONGRASS.—Cochin has been in good demand at 3½d. per oz. for spot, which is about steady, up to 3½d. being quoted. There are buyers, to come forward, at 3d. c.i.f.

LIME is quiet and unchanged at the nominal quotations of 2s. 6d. per lb. for distilled and 18s. for hand-pressed.

MINT.—Spot Japanese dementholised Kobayashi-Suzuki is steady at 4s. 8d. per lb., and to come forward 4s. 5d. to 4s. 6d. c.i.f. is quoted.

PALMAROSA is steady at about 14s. 6d. per lb. for pots.

PATCHOULI continues to be inquired for, and spot stocks of Penang are practically cleared; there is a holder, however, who quotes higher, at from 46s. to 48s. per lb. Parcels near at hand are offered at 45s. landed terms. Shipments to come forward can be obtained in some directions at 40s. c.i.f., but a good c.i.f. business is reported at the slightly higher figures of 41s. to 42s.

PEPPERMINT.—For American tin oil the current quotation at first-hands is 10s. 6d. to 11s. per lb. spot for good brands, which is easier, this reduction being due to the appreciation of the sterling. To come forward orders would be accepted for November shipment at 10s. c.i.f.

ROSEMARY.—Spanish is improving with other Spanish oils; spot is now quoted at about 1s. 9d. per lb.

SANDALWOOD.—The official price of Mysore Government oil is unchanged at 34s. per lb. for five-case lots. West Australian has been in fair demand at 25s., and West Indian (ol. amyris) is quoted at about 17s. 6d.—all on the spot.

SPIKE.—Spanish oils generally have improved lately, especially as regards spike, of which there was a small crop, and this, according to reports, is being rapidly bought up. There is a probability that speculators have entered the market, and an estimate of prices at the source places the value 20 per cent. higher than that ruling some weeks ago. Fair spot business has been done, and quotations are tending firmer at 3s. 9d. per lb.; ton lots, 3s. 8d.

WINTERGREEN (SWEET BIRCH OIL).—Spot prices are unchanged at from 18s. to 19s. per lb.

Fixed Oils, etc.

With the exception of castor oil, which remains firm and has been fairly active in a small way, the market has been exceedingly slack. Prices at the close are showing up much easier, but buyers are still few. Cottonseed oil has

declined very considerably. Tallows seem to be quite neglected, and are easier.

ACID OILS are again easier at the close this week, and have been dull throughout: Coconut, 37s.; palm kernel, 37s.; groundnut, 34s. BONE GREASE is quoted much cheaper, and has been very slack: Pale water, 31s.; benzine, 31s. CASTOR OIL, although continuing very much on the quiet side, is firm, and the market closes steady at: Pharmaceutical, 65s.; first pressings, 57s.; second pressings, 52s. Medicinal French is firm at 69s. in cases and 65s. in barrels ex wharf London. COCONUT OIL remains on the quiet side, and prices close showing a drop in values: Deodorised, 59s.; Ceylon, 50s. Cochin is steady and unchanged at 67s. COTTONSEED OIL.—The market is fairly well maintained, but has not been very active: Deodorised, 52s.; common edible, 50s.; crude, 44s. FISH OILS have been a dull market, and prices at the close are a shade easier at: Coast cod on the spot at 26s. to 27s., and Japanese in cases c.i.f. for shipment, 21s. to 22s. GROUNDNUT OIL remains quiet, with closing prices at about: Deodorised, 60s., and crude Oriental c.i.f. for shipment at 52s. LINSEED OIL.—There was at one time last week quite a good demand here and on the Hull market, and the advancing tendency of prices was assisted by a temporary spurt in the terms ruling for the seed. The situation is still, however, somewhat unsettled, as there is a certain amount of reselling in evidence. There seems, all the same, some reason to look for a revival of confidence in the near future, while the article is considered cheap enough. The feeling in other oils is slightly better. Naked on spot is 28s.; November-December, 27s. 6d.; January-April, 28s. 1½d.; Hull naked on spot, 27s. 3d. PALM OIL is keeping steady, although not at all active. Lagos is unchanged at 35s. 6d.; hards, 31s. 9d.; softs, 33s. 6d. RAPE OIL has been very dull, and closing prices are a shade easier than last week at: Refined, 55s. to 56s., and crude at 50s. to 51s. SOYA BEAN is steady at the close, but has eased off during the week: Deodorised at 54s. and Oriental c.i.f. for shipment at 37s. 6d. WOOD OIL.—Hankow is quiet on spot at 70s.; November-December, 68s. TALLOW (Australian).—A very slow week of business is recorded, and last week's auction was again disappointing. The market closes down to: Fine mutton, 50s. to 52s.; fine beef, 51s. to 52s.; good mixed, 44s.; and inferior, 37s. ANIMAL OILS.—Neatsfoot oil is now 4s. 9d. to 4s. 10½d. per gallon on spot; pale horse oil is 40s. delivered. All prices are quoted per cwt. on spot, except where otherwise stated.

Pharmaceutical Chemicals, etc.

QUOTATIONS from Germany are now being made in almost every case in sterling; this should have the effect of steadying up the market, which, during the past month, has suffered from the continual fluctuations of the mark. Business continues to be recorded throughout as being still very unsatisfactory. Values are generally about the same as last week. Saccharin is a shade cheaper, benzoate of soda is lower, and aspirin is easier. Cocaine is tending firmer.

ACETANILIDE appears to be irregular, with quotations for crystals and powder varying from 1s. 5½d. to 1s. 7d. per lb.

ALOIN.—English makers' prices are about 6d. per lb. higher.

AMIDOL is quoted at about 11s. 6d. to 12s. per lb.

AMIDOPYRIN is very unsteady; some lots are said to be offering as low as 19s., others are up to as high as 22s. per lb.

ASPIRIN has had a slow week of sales, and quotations at the close are a shade easier at 3s. to 3s. 2d. per lb.

BARBITONE continues inactive, with offers weak at 12s. to 12s. 6d. per lb.

BENZOIC ACID seems steady, although dull at 2s. 4d. to 2s. 6d. per lb.

BENZONAPHTHOL is generally offered at about 6s. 6d. per lb., with the market still quiet.

BETANAPHTHOL (resublimed) is offered from good supplies at 3s. 6d. per lb.; values are weak.

BROMIDES.—Ammonium is unchanged at 11d. to 1s. per lb. Potassium crystals and granular are still quoted

at 8½d. to 9d. per lb., as to quantity. Sodium is being maintained on a neglected market at 10½d. to 11d. per lb. CALCIUM LACTATE remains steady, but quiet, at 2s. 6d. to 2s. 8d. per lb.

CHLORAL HYDRATE remains slack, and values are unsteady; quotations are still at 5s. 3d. to 5s. 6d.; sales could possibly be effected at a shade less.

COCAINE.—As new imports are subject to the 33½ per cent. duty, the market is in upward tendency, even on stocks which have not paid the duty. At the moment agents quote 10s. 6d. to 11s. per oz. for hydrochloride, the latter price for small lots.

CODEINE.—Makers' prices for the alkaloidal crystals or precipitated are 6d. per oz. cheaper at 14s. per oz. Phosphate is now 10s. 6d.; hydrochlor. and sulphate are unchanged at 11s. 9d.

CREOSOTE (B.P.) has fallen away during the week on a neglected market, and is now offered at 3s. 9d. to 4s. per lb.

CREOSOTE CARBONATE is slack, with offers at 14s. neglected.

HEXAMINE has not been at all active, and values as quoted are easier at 4s. to 4s. 6d. per lb.

HYDRASTINE.—Makers' list-prices are 10s. per oz. lower at 120s. for the alkaloid, hydrochlor., and sulphate.

HYDROQUINONE remains in very poor demand; values are being maintained at 4s. 3d. per lb., but an occasional cheaper quotation is met with.

METHYL SALICYLATE is unchanged at 2s. 6d. to 2s. 9d. per lb., but the market is not very active.

METHYL SULPHONAL, although only in small demand, is being maintained steadily at 22s. per lb.

METOL is steady at from 14s. 6d. to 15s. per lb.

MILK SUGAR is steady at from 150s. to 155s. per cwt.

MORPHINE SALTS. Makers' list-prices are from 3d. to 4d. per oz. cheaper, the following being the quotations: Alkaloidal crystals, 12s. 9d.; precip., 12s. 6d.; acetate, 10s.; bromide, 12s. 6d.; hydrochloride, 10s.; ditto, crystals, 10s. 3d.; meconate, 12s. 6d.; sulphate, 10s.; ditto, cryst., 10s. 3d.; and tartrate, 12s. 6d. per oz. Morphine diacetyl is 1s. 6d. lower at 16s. 6d.; hydrochloride is 15s. 6d., and ethyl hydrochlor. 17s. 6d. per oz.

PARA-FORMALDEHYDE continues to be called for only very occasionally, with quotations unchanged at 3s. 6d. per lb.

PARALDEHYDE is maintained at the old figure of 2s. to 2s. 3d. per lb., the latter price for broken lots, but sales are very limited.

PHENACETIN remains unsteady on a dull market, with values at the close at about 6s. per lb.

PHENAZONE is unsteady at 8s. to 8s. 3d. per lb., the lower price being acceptable for reasonable orders.

PHENOLPHTHALEIN is unchanged on a quiet market at 3s. 6d. to 3s. 9d. per lb.

POTASSIUM BICARBONATE.—English makers have reduced the price by £9 6s. 8d. per ton.

POTASSIUM PERMANGANATE B.P.—Imported material has stiffened up a little, and nothing much is now offering below 1s. per lb.; there is still a steady demand.

POTASSIUM SULPHOGUANACOLATE remains neglected at 8s. per lb.

RESORCIN shows no signs of livening up, but values are quite firm at 8s. 6d. per lb.

SALICYLATES.—Sodium salicylate has eased off during the week, and closes lower on a dull market at: Crystals, 2s. 4d. to 2s. 5d.; powder, 2s. 2d. to 2s. 3d. per lb. Salicylic acid is firm, with the market quiet, at 1s. 5d. to 1s. 6d. per lb. for B.P. Licences to import are difficult to obtain.

SALOL is unchanged and steady at 2s. 8d. per lb.

SODIUM BENZOATE is much lower this week, with the market very dull, at 2s. per lb.

SODIUM DIETHYLBARBITURATE has advanced in some quarters to about 22s. per lb.

SODIUM TARTRATE.—English makers have reduced the price by about £5 per ton.

SULPHONAL remains generally inactive, with quotations maintained at 21s. per lb.

TANNIC ACID is rather dearer of late, at from 4s. 9d. to 5s. per lb. for leviss.

TARTARIC ACID is quietly steady at 1s. 5d. per lb. on the spot. In the drug auction 11 packages Lawes' make were bought in at 1s. 6d., less 5 per cent., a bid of 1s. 4½d. being refused.

TERPIN HYDRATE is unchanged on a dull market at 3s. 3d. to 3s. 6d. per lb.

THYMOL is quoted at about 22s. per lb., but there appears to be no demand.

Heavy Chemicals

Wednesday, November 2.

DURING the past week the market in heavy chemicals has shown very little sign of livening up. Beyond fair sales in some sodium products—ash and caustic—there has been nothing but small business done. Prices are being maintained by holders of stocks on the spot fairly well, but acetic acid and one or two other products are quoted at easier figures at the close of the market. It is the general opinion that business will remain quiet for the remaining two months of this year, and that there is a possibility of gradual improvement early in the coming year.

ACETIC ACID seems to be an exceedingly unsteady market during the last few days; quite considerable supplies were rushed over prior to the Safeguarding of Industries Act coming into force, and some of that stock is still unsold. In the meantime Continental quotations have fallen right away, and have more than balanced the duty now levied. 80 per cent. pure is from £41 to £43; 98 per cent. glacial from £47 to £50 per ton; some lots may be cheaper on spot; there is no demand at the moment.

ACETONE continues very slack, and quotations are again showing up easier at £80 per ton.

ALUM is slow, and British makers, at about £16 per ton, are being underquoted by Continental stuff; there is, however, no sign of any demand.

AMMONIUM SULPHATE is being quoted for export in large quantities at about £15 10s. to £16 per ton f.o.b. for ordinary quality—25½ per cent.; some inquiry is coming to hand.

ARSENIC.—The market is uncertain; first-hand terms, so far as named, are too high to induce buying. Whether the shortage of supplies looked for by producers will have a permanent effect on the market is a matter of conjecture. Market quotations may be called about £40 per ton upward, delivered London, for white Cornish powder, and resale lots are heard of thereat, and might be secured at less.

BARIUM CHLORIDE (98 to 100 per cent.) on the spot is not called for, and values are nominal. Cheap Continental quotations are neglected.

BLANC FIXE moves only very slowly at about £22 per ton.

COPPER SULPHATE.—The export demand is quiet, and the orders taken are on terms ranging from £30 per ton and upwards. The fact that Continental competition is very keen is against the British manufacturer securing better terms at present. Copper is cheaper, but it is about as low as it can be expected to be in the case of rough bar and even scrap material.

EPSOM SALT.—Commercial quality is freely offered at £8 per ton in single bags, but the demand is very poor.

FORMALDEHYDE remains very dull, and the market is weak at £85 per ton for parcels on the spot.

GLAUBER'S SALT.—Commercial quality finds no buyers for lots offered at £5 per ton f.o.b. in single bags.

LEAD ACETATE remains lifeless, with imported material offered at £36 for brown broken and £42 for white crystals; makers' prices are £40 for brown and £47 for white.

LEAD PRODUCTS.—British makers quote at about £39 10s., less 2½ per cent. Imported material is about £34 per ton. Genuine dry white from home makers is about £43 per ton in 8-cwt. barrels.

LITHOPONE remains in very small demand; 30 per cent. red seal is unchanged at about £24 per ton on the spot. Green seal is easy at £32.

NICKEL SULPHATE from makers for export is quoted at: Single salts, £57; double salts, £59 per ton.

OXALIC ACID has been in little demand and is steady at 9d. per lb.

POTASH CAUSTIC (88 to 92 per cent.) continues to be quoted on spot at about £31 per ton; home makers are now asking £32 10s. Continental quotations are varying and not to be relied upon.

POTASSIUM BICHROMATE has been greatly reduced by makers, who now offer at 7½d. per lb. A few spot lots are cheaper at about 9d. per lb., and a few inquiries are coming through.

POTASSIUM CARBONATE continues quiet, with quotations unchanged at £26 to £27 per ton.

POTASSIUM PERMANGANATE seems to be a shade firmer and still in good request. Commercial is now quoted at about 1s. per lb. on spot. Makers at home continue their price at 1s. 2d. per lb.

POTASSIUM PRUSSATE is steady, but still rather quiet. Makers' and spot prices are about the same at: Yellow, 1s. 2d. to 1s. 2½d.; red, 2s. to 2s. 3d. per lb.

SODA ASH (58 per cent. light alkali) on the spot has eased off a point, and, now available at about £10 to £10 10s. per ton, there appears to have been quite a fair demand recently. Home makers are quoting £8 7s. 6d. for home trade only, and in the region of £10 for export.

SODA CRYSTALS from makers are still at £7 per ton in bags, carriage paid.

SODIUM BICARBONATE still drags, with spot lots difficult to move at £11 10s. per ton. Values are not at all steady.

SODIUM BICHROMATE is now quoted at the cheaper figure of 6½d. per lb. from makers; parcels on the spot are easy at about 7d. per lb. There has not been much inquiry on the market.

SODIUM CAUSTIC.—From makers' works prices are as follows: 70 to 72 per cent., £24 10s.; 76 to 77 per cent., £26 15s. per ton for home trade only. Parcels on the spot for export are quoted at about: 70 to 72 per cent., £24; 76 to 77 per cent., £25 10s. There has been quite a good demand and spot prices are firm. Good quantities of American material have been sold at competitive figures for the Continent.

SODIUM HYPOSULPHITE has eased off again, with the market remaining slack. Pea crystals in 1-cwt. kegs are now down to £20 on spot, and commercial quality is quoted at £15 per ton. Makers at home quote £20 for photographic quality and £15 for commercial.

SODIUM NITRITE remains at the old figure of £40 per ton, with the market still quiet.

SODIUM PRUSSATE from makers is still quoted at 8d. per lb., with spot lots at 8d. to 8½d. per lb. There has been some limited business done.

SODIUM SULPHIDE (60 to 65 per cent.), concentrated in casks from makers, is quoted at the advanced figure of £24 per ton; spot lots of 60 to 62 per cent. solid in drums at £22; broken ditto in drums is at about £23 per ton.

ZINC DUST is steadier, though still dull, at about £46 per ton for English and American 92 to 94 per cent. Australian 88 to 92 per cent. is unchanged at £50.

ZINC OXIDES.—British makers of best makes quote at: White seal, £41 10s.; green seal, £40; red seal, £37 per ton.

COAL-TAR PRODUCTS, ETC.—Business has been very limited during the past week. Values for all products are being well maintained, and the market closes steady. There are no changes to record. Aniline oil and salt are both now quoted at 1s. 4d. per lb. on slack markets. Betanaphthol remains dull, with values unchanged but weak at 1s. 9d. per lb. Benzol is well maintained, and the market continues fairly active; pure 3s., "90's" 2s. 11d. per gallon. Carbolic acid crystals are still slack, and good supplies offering on a weak market at 6d. to 6½d. per lb. Cresote oil is fairly steady, but not active, at 9d. per lb. Cresylic acid is unchanged, with the demand still poor: Crude 1s. 10d., pale straw 2s. 6d. per gallon. Solvent naphtha, naked, 90 to 160, continues firm and fairly active at 3s. per gallon. Heavy solvent naphtha, 90 to 190, is unchanged and steady at 2s. 11d. per gallon for naked. Naphthalene of all grades is unchanged in value, with the market still slack: Crude, £7 to £9; powder, £17; crystals, £19; flakes, £20; candles and tablets, £40 per ton. Toluol and xylol are neglected,

with values unchanged. Pitch is steady but not very active at £3 10s. per ton. Crude tar, ex works London, is steady at 52s. 6d. to 57s. 6d. per ton. Refined tar is now quoted at 40s. to 42s. 6d. per barrel f.o.r.

London Drug-auctions
Commercial Sale Rooms,
Mincing Lane, E.C. 3, November 3.

At the last auction held this year moderate supplies were offered, and, with the exception of one or two outstanding items, like honey, cardamoms, and ipecacuanha, there was little demand. Prices where business was done distinctly favoured buyers. Aloes and benzoin were quite neglected. Cardamoms met with a fair demand at steady rates. Gamboge was held for previous high prices, but failed to sell. Honey was in good demand for new crop Jamaica, but other descriptions were flat. Ipecacuanha was on the easier side, but there was an absence of good, sound quality, slightly damaged goods filling buyers' requirements. Good Aden myrrh is more plentiful, and decidedly cheaper, making inferior mixed sorts difficult to sell. Orange-peel was quitted without reserve at about previous prices. Rhubarb met with a retail sale only. Grey Jamaica sarsaparilla was about steady for good, sound, and easier for part-mouldy. Native was also steady. Tinnevely senna offerings partly consisted of new crop leaf, but met with a poor reception at easier rates. Mecca pods sold at lower rates. Turmeric is steady, and beeswax failed to sell.

	Offered	Sold		Offered	Sold
Ajowan seed ...	8	0	Honey—		
Albumen ...	6	0	Jamaica ...	416	189
Aloes—			San Domingo ...	4	0
Cape ...	(cs.) 136	4*	St. Lucia ...	46	46
and 60 tins			West Indian ...	27	1
Curaçao ...	32	0	Ipecacuanha—		
Zanzibar ...	4	0	Cartagena ...	7	0
Althea root ...	14	14	East Indian ...	21	0
Ammoniacum (pkgs.)	31	0	Matto Grosso ...	43	13
Anise oil ...	25	0	Minas ...	20	0
Areca ...	142	0	Kamala ...	2	0
Argol ...	17	0	Kola ...	193	12
Arnica flow. ...	19	0	Lime juice ...	8	8
Asafetida ...	26	0	Lima oil ...	5	0
Balsam tolu ...	10	0	Liquorice juice (cs.)	10	0
Benzoin—			Liquorice root ...	53	42
Palembang ...	39	0	Matico ...	3	3
Siam ...	23	1*	Mint oil ...	7	0
Sumatra ...	228	0	Musk seed ...	10	0
Blue mallow flow.	47	0	Myrrh ...	226	18
Buchu leaves ...	32	0	Olibanum ...	197	0
Calamus ...	12	0	Orange peel ...	104	25
Calumba ...	452	0	Palmarosa oil (pot)	1	0
Cannab. ind. ...	23	0	Pistachio nuts ...	27	0
Cantharides ... (ch.)	30	5	Poppyheads ...	14	0
Cardamoms ...	535	72	Rhatany ...	21	1
Cascarilla ...	4	0	Rhubarb (Ch.) ...	128	6
Cassia fistula ...	71	50	Rosemary oil ...	7	0
Chiretta ...	23	0	Sage ...	130	130
Cinchona ...	63	0	Sandarac ...	57	0
Citronella oil ...	5	0	Sarsaparilla—		
Coca leaves ...	10	0	Grey Jamaica ...	43	25
Cochineal ...	5	0	Mexican ...	5	0
Colchicum root ...	3	0	Native Jam. ...	33	4
Croton seed ...	39	0	Scammony root ...	32	0
Cubebs ...	65	0	Senna and pods—		
Cuttlefish bone ...	38	0	Alex. ...	84	25
Dragon's blood ...	65	1	Tinnevely ...	794	112
Egg yolk ...	10	0	Sodium brom. ...	2	2
Elemi ... (cs.)	79	5*	Squill ...	15	0
Ergot ...	40	0	Stramonium (Cape) ...	6	0
Eucalyptus oil ...	49	10*	Strophanthus ...	30	0
Galls ...	53	0	Talc ...	40	0
Gamboge ...	31	0	Tamarindis (E.I.)	118	0
Geatjan ...	12	0	Tartaric acid ...	11	0
Gingergrass oil (pots)	2	0	Tonka beans ...	12	0
Guaiacum ...	25	1	Tragacanth ...	95	5*
Gum acacia ...	2	2	Turmeric ...	405	0
Hanbane ...	123	22	Wax (bees) —		
Henna ...	31	20	Abyssinian ...	796	0
Honey—			Algerian ...	10	0
Brazilian ...	10	0	Beladi ...	17	0
Calif. ...	20	0	Ohiian ...	11	0
Chilian ...	13	0	East African (various)	129	65
Cuban ...	4	0	East Indian ...	327	0
Hayti ...	4	0	Jamaica ...	13	0
Honolulu ...	20	0	Wild cherry bark ...	10	0

* Sold privately.

The next drug auction will be held on February 2, 1922.

ALOES.—Not a single package sold. Good hard bright Cape first were obtainable at the lower price of 38s. per cwt.; four cases had been sold privately; fair to good lively Curaçao was obtainable at 80s. to 85s.

ALTHEA ROOT.—A lot of 14 bags sold without reserve at 29s. per cwt.

BENZONIN was quite neglected. Good fair Sumatra seconds with storax flavour was offered at £9, at which sales have been made privately.

CARDAMOMS.—A small proportion was disposed of at steady prices, comprising Ceylon-Mysore extra bold pale 5s. 6d.; good bold pale, 4s. 3d. to 4s. 4d.; bold medium palish to pale, 3s. 3d. to 3s. 9d.; splits, extra bold, 3s. 8d.; medium splits, 2s. 5d. to 2s. 9d.; brown and splits, 1s. 5d. to 1s. 8d.; pale seed, 2s.; broken pale seed, 2s.; good dark seed, 2s. 3d. to 2s. 4d. Ceylon-Malabar, small to medium brown (three cases), sold at 1s. 2d.

CALUMBA was quite neglected. Medium to bold fair yellow native washed is obtainable at 12s. 6d. per cwt.

CANTHARIDES.—Five cases of fair Chinese sold at the easier rate of 4s. per lb. Another holder asked 4s. 2d. for slightly broken.

CASCARILLA.—For two bales of ordinary stringy quality 2s. 6d. per lb. was wanted. Two barrels of siftings heavy with dust were held at 9d.

CASSIA FISTULA.—Fifty baskets of lean Java, part ratty and perished, sold at 65s. per cwt, being rather dearer. Privately good sound Jamaica can be had at 65s.

COCA LEAVES.—Ten bales of fair green Truxillo were held at 1s. per lb.

ERGOT was plentifully offered, including fifteen bags good bold Spanish, which were bought in at 5s.; nine bags fair sound at 5s.

GAMBOGE is held for previous prices, but buyers hold off. Siam pipe of fine bright orange fracture was held at £38, and fair pipe partly blocky at £31 to £32.

GUAIACUM.—Fair glassy lump was obtainable at 3s. per lb., and for a single case of ordinary drossy lump 1s. was paid.

HENBANE.—A lot of 32 bales Egyptian sold without reserve at from 14s. to 17s. 6d. per cwt. for 0.47 per cent. alkaloïds.

HENNA.—Twenty bales of powdered and heavily loaded with sand sold without reserve at 25s. per cwt., and for broken leaf 75s. per cwt. was wanted.

HONEY.—Interest centred on new crop Jamaica, which met a fair demand, but the general tone of honey was flat; ninety-seven packages new crop Jamaica of exceptional flavour and quality met a spirited demand, and high prices were realised owing to nothing having been like it on the market for some considerable time. Ten barrels white set sold at 97s. 6d.; twenty-five creamy set at 80s. to 82s. 6d.; twenty-five straw set at 70s. to 77s. 6d.; and twenty-five light to pale amber setting at 70s. to 80s.; ten barrels dark amber liquid at 47s. to 48s.; fifty-five barrels biscuit set at 37s. 6d. to 50s.; dark liquid amber, 35s. to 41s.; and brown to pale set, part sugary, 37s. to 40s. Of St. Lucia, forty-six packages offered and sold cheaply, including light amber setting at 30s. to 35s. and palish set at 35s.; four barrels light amber liquid Cuban went at 45s.; 310 cases Californian were retired, including amber setting at 60s. and pale to light amber at 70s.; forty-two cases Brazilian were retired at 30s. for dark brown and partly fermented.

IPECACUANHA was easier, 12 bales ordinary to fair, part mouldy, Matto Grosso selling at 5s. 3d. to 5s. 11d. per lb., and for ordinary lean, slightly water-damaged, from 4s. 10d. to 5s. 2d. per lb. was paid. There was practically no good quality Matto Grosso offered to-day, and the best lots were held at 5s. 10d. per lb. A parcel of 21 bale East Indian offered and retired at 6s. per lb., there being no bids, the limit was 5s. 6d.

KOLA was plentiful, but sales were quite retail, comprising two bags fair St. Lucia halves at 3d. per lb. Good bright Jamaica halves were held at 4d. Nine bags of good African quarters sold without reserve at 2½d. to 3d. per lb.

LIME JUICE.—Five puncheons inferior pulpy off-colour West Indian juice sold at 4d. per gallon, and three puncheons went at 6½d. per gallon.

MATICO.—Three bales of fair greenish leaves sold cheaply without reserve at 5½d. per lb.

MYRRH was much lower, five cases Aden sorts, partly blocky, selling at £7 per cwt. subject to approval, and for three bags of good Aden sorts £7 15s. were paid. Towards the close of the auction a further five bags sold at £10 per cwt.

ORANGE PEEL.—Fifteen cases of about fair Tripoli strip sold without reserve at 4½d. per lb., being steady compared with the previous auction under these conditions. At the close of the sale 10 cases inferior dull strip sold at 2½d. per lb. without reserve.

PAPAIN.—Two cases darkish brown Ceylon crumbs were retired at 9s. per lb.

RHATANY ROOT.—A single bale of lean sold without reserve at 5½d. per lb.

RHUBARB is extremely dull. A case of good Shensi pickings sold at 3s. 5d. per lb. subject, and a case of fair rough pickings went at 2s. per lb., subject. Two cases of medium flat Shensi with three-quarters fair pinky fracture sold at 4s. 6d., subject. Medium to bold flat High-dried was limited at from 3s. to 3s. 3d. per lb.; fine medium to bold rough round High-dried at 2s. 3d. to 2s. 6d. as to quality. Best flat Shensi was limited at 6s.; small round and trimming root with three-quarters fair fracture was obtainable at 5s.

SAGE LEAVES sold at full prices, considering the quality, 130 bales of Greek selling, without reserve, at from 7s. 6d. to 8s. 6d. per cwt., for very stalky, with leaf portion partly perished.

SARSAPARILLA was about steady for grey Jamaica, 25 bales being disposed of, comprising good grey at 2s., part mouldy and part wormy at 1s. 7d. Native Jamaica sold in retail only, a single bale of good red realising 1s. 8d., and a bale of dull mixed went at 1s. 6d.

SENNA.—Tinnevely, partly of new crop, met a poor demand at cheaper rates, comprising fair medium to bold greenish leaf at 5d. per lb., middling greenish at 3½d., and ordinary yellowish at 2½d. Thirty bales leaf sold without reserve at from 2½d. to 3½d. per lb. for small to medium greenish but sea-damaged. *Pods* sold at 2d., subject, to 2½d. for ordinary dark and 3½d. for fair. 25 bales of fair Mecca pods sold cheaply without reserve at from 4½d. to 5½d. per lb. Alexandrian siftings were obtainable at 5d., and broken leaf at 11d. to 1s. Alexandrian pods are obtainable privately at from 10d. upwards.

SODIUM BROMIDE.—Two cases (490 kilos. each) sold at from 5½d. to 6d. per lb., Hamburg analysis indicating Ph.G.V. quality.

STRAMONIUM LEAVES.—Six bales of fair Cape were limited at 80s. per cwt.

TURMERIC.—For a parcel of 80 bags of fair Madras finger 20s. was asked.

French Vanilla Market.

A correspondent states that, since our last report, the steamers "Nera" and "General" have brought to Marseilles about 50 tons of vanilla from different sources. An accumulation in the market followed, and, although no important transactions have been recorded, there have been probably buyers at about 45fr. per kilo, heads and tails, warehouse, Marseilles conditions. Tahiti beans are still very firm, about 40fr. per kilo., warehouse, original cases. Mexican are unchanged.

Germany's Rubber Trade

DURING the past year Germany imported 12,791 tons of raw and prepared indiarubber and balata, compared with an importation of 23,780 tons in 1913. Of the total amount of raw indiarubber imported, 115 tons were re-exported, compared with 3,971 tons in 1913. In this connection it is interesting to note that in consequence of the present political situation the Dutch East Indies have now become Germany's principal source of supply, as will be apparent from the following comparison of the origin of the rubber imported into Germany in 1920 and 1913:

	1920	1913
Imports from British India ...	2,655	4,267 tons
" " Dutch East Indies ...	3,262	1,037 "
" " Brazil... ..	1,106	5,555 "

Articles made of rubber imported into Germany aggregated, in 1920, 2,061 tons, against 4,190 tons in 1913; while German exports of rubber goods amounted to 3,110 tons in 1920, which shows a tremendous falling off when compared with the

amounts for 1913, which totalled 19,490 tons. The principal category of rubber goods imported during the past year consisted of automobile tyres and tubes, amounting to 668 tons (876 tons in 1913), of which France supplied 49,200, Belgium 32,700, and the United States 32,300 tyres. In 1920 Germany exported tyres with a total weight of 482 tons, against an export of 6,721 tons in 1913.

German Chemical Exports

THE following official figures are now published covering German imports and exports of chemicals and allied products during the year 1920. While the values are stated for the exports, in the case of the imports only the amounts are given. The more detailed specifications for the principal products included under the following seven general headings will be published later:

	EXPORTS		IMPORTS
	Tons	Marks	Tons
Chemical raw materials, acids, and their compounds	2,502.134	4,241,208.000	153.816
Colours, etc.	101.541	3,682,683.000	11,495
Varnishes, lacquers	2,533	45,996.000	785
Ethers, alcohols, essential oils, perfumes and cosmetics	2,778	217,608.000	8,124
Chemical manures... ..	6,473	4,810.000	67,997
Explosives, etc.	4,321	136,054.000	5,195
Chemical and pharmaceutical preparations ...	12,677	629,763.000	18,221

The total exports of the above chemical groups are stated to amount to 2,632,461 tons, to the value of 8,958,122,000m., while the imports aggregated 265,636 tons.

Italian Customs Duties

THE new Italian customs tariff imposes an *ad valorem* duty of 15 per cent. on all alkaloids imported into Italy on the "official value." In a note to article 767 of the tariff it is stated that the "official value" of the single alkaloids will be fixed from time to time by the Minister of Finance, acting in concert with the Minister of Commerce and Industry. An order of the Minister of Finance has now been published in the "Gazzetta Ufficiale" establishing the values for a number of alkaloids, these values to serve as the basis for calculating the 15 per cent. duty to be levied on such imports into Italy. The values are given in gold lire, and the duty is also levied in gold lire. We give below the list of these official quotations for alkaloids, the amount referred to being in each instance for 1 kilo. of alkaloid:

	Lire.		Lire.
Aconitine	1,740	Morphine hydrochlor. ...	585
Apomorphine hydrochlor. ...	950	Narceine	845
Atropine hydrochlor.	1,170	Homatropine	2,500
Atropine sulphate	1,020	Homatropine hydrobrom. ...	1,890
Berberine hydrochlor.	210	Papaverine	75
Bruceine	30	Pelletierine	2,430
Bruceine sulphate	50	Pelletierine sulphate ...	1,800
Caffeine	60	Pelletierine tannate ...	395
Caffeine benzoate	30	Pilocarpine	1,460
Caffeine salicyl.	35	Pilocarpine hydrochlor. ...	1,220
Cocaine	500	Scopolamine hydrobrom. ...	1,640
Cocaine hydrochlor.	420	Scopolamine hydrochlor. ...	1,640
Codeine	750	Solanine	1,025
Codeine hydrochlor.	770	Solanine hydrochlor. ...	1,210
Codeine phosph.	530	Sparteine	170
Colchicine	2,420	Sparteine sulphate	110
Colchicine salicyl.	2,420	Strychnine	355
Dionin	1,100	Strychnine nitrate	300
Emetine hydrochlor.	3,500	Strychnine sulphate ...	300
Eserine	2,580	Theobromine	50
Eserine salicyl.	2,050	Theobromine sodio-salicyl. ...	40
Eserine sulphate	2,070	Tropacocaine hydrochlor. ...	985
Heroin hydrochlor.	820	Veratrine	390
Hydrastine	6,970	Veratrine sulphate	390
Hydrastine hydrochlor.	6,970	Agaricine	50
Hydrastinine hydrochlor. ...	11,050	Cantharidine	5,310
Hyoxyamine	1,800	Digitaline	31,500
Yohimbine	2,315	Salicine	80
Morphine	920	Other alkaloids	2,000
Morphine acetate	630		

PERFUMED SPIRITS IN ST. CHRISTOPHER-NEVIS.—Under the recently revised tariff of St. Christopher-Nevis (Leeward Is.) the duty on bay rum and other perfumed spirits, including toilet-preparations imported from Canada or the United Kingdom, is 15 per cent. *ad valorem*, and from any foreign country 25 per cent. *ad valorem*. The preferential duty on spirits, not specially mentioned in the tariff, is 6s. per gallon, and the rate under the general tariff 8s. 4d. per gallon.



Income-tax

SIR,—The estimate of 33½ per cent. gross profit for income-tax purposes is too high. I suggest it should be 25 to 30 per cent. The reasons for this are:

1. The increase in the sale of "patents"—now 60 per cent. of our sales.
2. The narrow margin on National Health Insurance dispensing.
3. The very keen drug prices in the Standard and London lists.
4. The selling-off at sale prices of many sundries.
5. The slump in market price of drugs, which compels us to sell many items at a keen price, although bought in a high market.
6. The stoppage of the 30s. a week war bonus to trade-union workers will soon be complete, and will make prices keener.
7. The Profiteering Act prevented chemists recovering their ever-rising expenses.

I feel certain we are not making 33½ per cent., although we may have done so up to June 1921. I give rough figures to illustrate what I think we are making, taking £4,000 as an illustration only:

	Total	Gross Profit
60% "patents" @ 15%	£2,400 =	£360
10% insurance dispensing @ 25%	400 =	100
20% drugs @ 50%	800 =	400
10% sundries @ 33½%	400 =	140
	£4,000 =	£1,000

This looks like 25 per cent. gross profit; 27½ per cent. would be £1,100; 30 per cent., £1,200; 33½ per cent., £1,300. It can only be proved by yearly stocktaking *in extenso*, and even then will need many adjustments for falling price. Will somebody reply who really has taken stock and tell us their rate of gross and net profit has fluctuated since 1914? It is difficult to get time to think out problems of this sort, but I suggest the last four years to June 30 have been:

	Per cent.
1917-18 gross profit	35%
1918-19 "	33½%
1919-20 "	30%
1920-21 "	27½%
1921-22 will be	25%

Seeing that we carry nearly 20,000 lines of stock, we have to replace frequently; and since over half of our total stock is in "patents" which only went up in value by the price of the stamp, then our "unearned increment" when values went up was a mere bagatelle compared with our loss when markets and retail prices began to fall. The men who really saved what war profits they made are those who sold out by 1919-20. The rest of us will lose our "unearned increment" and some money besides, but our loss will be kept in check by the fact of "patents" being the big half of our stock. Experience and personal attention will save us from the big loss made by co-ops.—but they are, or are going to be, exempt from income-tax, so we must protect ourselves by finding out our real safe average gross profit. Let us hear from other men and meantime get under 25 per cent. for 1921—for 1922 we shall never make 20 per cent. gross unless our overhead expenses are very low and business is run single-handed.

Yours truly,
JAY MACK.

Prescription Pricing

SIR,—“Container” (*C. & D.*, October 29, p. 75) justifies my merriment over pricing prescriptions. What useful purpose can be served by taking off a profit on goods sold in the act of dispensing in order to put it back under “names” which give one the false impression that it is being done in a scientific manner is quite beyond my understanding. I notice that the Retail

Pharmacists’ Union has appointed a committee to investigate methods, and to try to devise one which will yield satisfactory but similar results in all hands. Quite laudable, but quite impossible unless you stabilise buying price—which competition puts out of court. They can, however, fix “dispensing price” as “selling price,” with or without a compounding fee. Flat rates are dangerous in our modern varying costs. In ninety-nine prescriptions out of a hundred any chemist could give a fairly accurate price—i.e., the sum of the selling prices of each ingredient. Whether they agree with a fee per prescription or not is for them to settle, but the principle is accepted in the National Health Insurance; why should other dispensing be debarred? The difference in pricing is the difference in primary cost and individual notions of ratios of gross profit on sales. Settle these two points, and the rest is easy. Lists are bound to price on a settled scale, and often appear high; but, in scientific lists, gradations of primary cost are adjusted. The trouble is that so many are like “Container,” and boggle over the fee for various reasons—one being “competition.” Education and publicity are the solution in this as in other things. The man who sets out to cut less than list price will cut until he cuts his profits low enough in order to compete with drapery establishments, dispensing medicines at the ratio of so many turnips at *x* pence per lb., for a totally different object. Let the cobbler stick to his last.

Yours faithfully,
THE “SCRIPT” WRITER (2/11).

Local Associations

SIR,—The future of the local associations is now being met by the proposal that they shall become branches of the Pharmaceutical Society, and that it shall be compulsory on all members to become members of the Pharmaceutical Society as well. There can be no quarrel with this suggestion from the point of view that an individual who is a member of a branch of the Society must naturally be a member of the Society itself; but, considering the peculiar circumstances under which the local associations were founded and have grown up and flourished, there is no need to wonder that the proposal has led to a good deal of discussion, not all of it favourable, at local meetings lately. Many of these bodies have members who, by reason of the opinions they hold, whether rightly or wrongly does not enter into the fact, have never become M.P.S.’s, and some of these members have taken a leading part in the working and in forwarding the aims of their association; and it is, therefore, a very awkward position for any association to have to say to valuable members, “We are now becoming a branch of the Society; join up or get out.” It certainly looks very much as if the Society were trying to reap the fruit which has become so promising owing to the spade-work of the associations; other examining bodies make it compulsory for successful candidates to take up membership, but the Pharmaceutical Society has never had this power, and consequently has no disciplinary course of action to uphold its morale, hence its lack of prestige among qualified men. On the other hand, most pharmacists in business either have become, or will become, subscribers to the Retail Pharmacists’ Union, and it is hard to see what inducements there will be for such pharmacists to carry on with the associations, except sentimental ones, when the most important objects are met by the new body.

Yours faithfully,
TRIPLE MEMBER (29/10).

Phosphorus Poisoning

SIR,—At the recent meeting of the British Medical Association, Sir Thomas Oliver, in an address on “Industrial Hygiene,” claimed as a medical triumph the conversion of the match-making industry from a dangerous to a harmless trade. This is, in my opinion, claiming too much, as this transformation is entirely due to chemistry and chemical research. There are two types of phosphorus poisoning, viz: (a) *Constitutional*, known as phosphorism, characterised by anæmia, albuminuria, and a peculiar fragility of the bones. A sufferer may break

his leg by the mere muscular effort of stepping on to a footpath. (b) *Chronic*, known as "phossy jaw." This variety consists of a chronic inflammation of the jaw-bones, causing great pain and the discharge of pus from the inflamed bone into the mouth. This discharge finds its way either to the stomach, causing gastritis, or to the lungs, producing broncho-pneumonia. Sir Edward Thorpe and Sir Thomas Oliver were asked to suggest a means of preventing this loathsome form of industrial poisoning, and, of course, they had to call in the industrial chemists, who promptly set to work to find a substitute for the dangerous white phosphorus. As the result of experiments at Aubervilliers, near Paris, sesquisulphide of phosphorus was selected. Since the introduction of this compound into match-making, not only has "phossy jaw" disappeared and the industry become freer from danger, but as the matches now in use are no longer poisonous, suicides and accidental deaths of infants from sucking matches have ceased. This is a great triumph of chemistry in relation to industrial health, and not an achievement of the doctors. All the armamentarium of modern hygiene, such as good water, ventilation, and cleanliness of factory and person would have been of no avail against the fumes of the phosphorus which poisoned the workers.

Yours sincerely,

IRISH APOTHECARY (4/10).

Legal Queries

I. K. (1/11).—The sum paid for a business, including stock and goodwill, is capital, and not income, consequently there the question of income-tax does not arise.

C. L. (28/10).—The words, "Baby Ointment, Healing, Soothing," on a label do not render the preparation to which the label is attached liable to medicine-stamp duty.

Kudos (27/10).—A "known, admitted, and approved" remedy does not become liable to medicine-stamp duty when advertised so long as proprietary rights are not claimed.

E. J. (31/10).—If you use a registered trade-mark as the name of a proprietary article that constitutes a claim to exclusive manufacture and the preparation would require to pay medicine-stamp duty.

J. I. (3/10).—There is no "design" in the ointment carton which could be protected, but if a competitor imitated too closely the typographical display and colouring he could be proceeded against for "passing off."

Scot (27/10).—A dentist cannot claim to be registered as a chemist, but if he is a medical man who, in obtaining his diploma, passed an examination in pharmacy, he can call himself a chemist and druggist if he wishes to.

Inquisitive (31/10).—Full particulars are given in *The Chemist and Druggist Diary*, 1921, regarding (1) the incidence of medicine-stamp duty and (2) the method of registering trade-marks. There is no process of "registering a patent medicine."

Apothecary (22/10).—A Licentiate of the Pharmaceutical Society of Ireland is not entitled to carry on the business of a pharmaceutical chemist or chemist and druggist in Great Britain. He is legally in the same position in Great Britain as an unqualified person.

Toilet (27/10).—The Dangerous Drugs Act, 1920, refers to the sale of cocaine, ecgonine, and morphine. The Poisons and Pharmacy Act, 1908, regulates the sale of carbolic acid and tincture of cantharides. The amended Poison Schedule was printed in the *C. & D.*, January 1, p. 75.

D. B. (25/10).—The sale of ammonia solution is not by law restricted to registered chemists, although Section 5 of the Poisons and Pharmacy Act regulates the labelling and kind of bottle in which solutions containing more than 5 per cent. by weight of free ammonia may be sold.

R. M. G. (56/24).—The cough-mixture label you send renders the article to which it is affixed liable to medicine-stamp duty owing to the use of the proper name in the possessive case. If the name were omitted and the formula registered as a "known, admitted, and approved" remedy it would not require stamping.

F. H. Q. (26/10).—The label you send would render the preparation to which it is attached liable to duty on account of the claims to proprietary rights made in the use of your name in the possessive case and the words "prepared only." The disclosure of the composition on the label does not neutralise the above claims.

Barford (22/10).—(1) REGISTERED MEDICAL PRACTITIONERS are by Section 11 of the Pharmacy Act, 1852, excluded from the Register of Pharmaceutical Chemists. By Section 1 of the Pharmacy Act, 1869, legally qualified (i.e., registered) medical practitioners who, in order to obtain their diploma, passed an examination in pharmacy are exempt from the provisions of the first fifteen sections of the Pharmacy Act, 1868, and Section 3 of the Pharmacy Act, 1869, exempts from the poison-retailing conditions any medicine supplied by such practitioners to their patients. Such practitioners may use the title "chemist and druggist," but not "pharmacist" unless they are registered as chemists and druggists. (2) If you trade under any other name than your true Christian and surname you must register the name in accordance with the Business Names Registration Act.

W. G. B. (22/10) is sub-lessee of premises under a lease which provides for the outside painting of the building in every third year of the term and the inside painting in every seventh year. The outside painting was done two years ago, although this year is both a third and a seventh year of the term. The lessor has served upon "W. G. B." a notice of dilapidations, calling upon him to execute certain repairs, and also to pay compensation for breach of covenant, the lessor having received a similar notice from the superior landlord. The lease does not provide for the payment of compensation, and "W. G. B." asks whether he can be compelled to pay this, and also whether he can be required to paint the outside of the premises in view of the fact that it was done only two years ago. ["W. G. B." should consult a surveyor and execute all the repairs which the surveyor considers to be necessary in order to put the premises into a proper state of repair in accordance with the lease, even if further outside painting is involved. The claim for compensation is a mere formality, and provided "W. G. B." complies with the notice, within the period prescribed either in the notice or the lease, it is doubtful whether the landlord could even recover his expenses.]

Yorks (24/10) asks (1) if a chemist who holds a licence to sell medicated wines, and who opens from 6 to 7 on the half-closing day, can sell wines during that hour; and (2) can he, if he is so disposed, sell wines only from 5.30 to 9 p.m. on any or every week-day? [There is, in strictness, no such thing as a licence to sell medicated wines. An ordinary wine retailer's licence "off" is granted, and the licensee is asked to give an undertaking that he will only sell medicated wines under it. If he does not fulfil this condition, the renewal of the licence may be refused at the next licensing sessions. The provisions of the weekly half-holiday do not apply to either (1) the sale by retail of intoxicating liquors, such as wine, nor to (2) the sale of medicines. Nor do local closing orders apply to either of these businesses; but a special order may be made applicable to the shops retailing intoxicating liquor in the district, provided this is agreed to by at least two-thirds of the licensees in the area. The question, therefore, is, has any such special order been made? If so, it would govern; if not, the hours (if any) fixed by the licensing justices for the sale and supply of intoxicating liquor under the Licensing Act in the area apply; and if no hours have been fixed, the statutory hours apply—that is, 11.30 a.m. to 3 p.m., and from 5 p.m. to 10 p.m. An order may, however, be received at any hour for "off" consumption, and liquor so ordered may be despatched at any hour.]

Dispensing Difficulties and Notes

An Effervescent Mixture

SIR,—The prescription herewith was dispensed as written. It made an ugly mixture which effervesced somewhat. I do not think any iodine was liberated, but there were nitrous fumes given off. What should be done in this case?

Yours truly,

PROGRESS (21/10).

Tr. ferri perchlor. ...	...	3ss.
Spt. æther. nit. ...	...	3j.
Sodii salicyl. ...	...	3ij.
Potass. ioidid. ...	...	3ij.
Inf. calumb. ad ...	...	3xij.

[When this prescription is compounded by dissolving the sodium salicylate and potassium iodide in the infusion of calumba and adding gradually the tincture of perchloride of iron and sweet spirit of nitre, previously mixed together, a dark-red mixture is produced. It contains a light precipitate of salicylic acid and salicylate of iron. This, however, shakes up in quite a satisfactory manner. There does not appear to be any necessity to make any alteration or addition to the prescription.]

Precipitate in Mixture

SIR,—Can the following mixture be sent out clear? If the mag. sulph. and pot. bicarb. are dissolved together and allowed to stand for two hours, insoluble crystals are formed with effervescence. Should these crystals be rubbed down to a fine powder and sent out with a "Shake the bottle" label? This is what I did.

Yours, etc.,

M. P. S. (8/8).

Mag. sulph. ...	...	3vj.
Potass. bicarb. ...	...	3vj.
Sodii salicyl. ...	...	3j.
Vin. colchici ...	...	3iss.
Sp. chlorof. ...	...	3ij.
Aquam ad ...	...	3xij.

[This mixture cannot be compounded clear owing to formation of some insoluble magnesium bicarbonate. Your procedure was quite in order. The mixture, however, can be expeditiously prepared by rubbing up the salts together with a little of the water until effervescence has ceased, then diluting with the remainder of the water, and finally adding the colchic wine and spirit of chloroform. The precipitate is light and diffuses satisfactorily.]

Discoloured Bismuth Mixture

SIR,—The first time I dispensed the following mixture it kept quite white, but the second time it went bad in two days—turned bluish black and had a horrible smell. Can you tell me what went wrong?—Yours truly,

J. M. L. (11/7).

Liq. bismuth. ...	...	3vj.
Pancreatin. ...	...	gr. xv.
Sodii bicarb. ...	...	3j.
Mag. carb. ...	...	3ij.
Aq. menth. pip. ad ...	...	3vj.

[We have not succeeded in reproducing a black and "whiffy" variety of the mixture. In our opinion the undesirable product was due to some accidental contamination outside of the constituents of the mixture. We have known a white bismuth mixture go black in one bottle and remain normal in another. The cause of the trouble was found to be a speck of iron sulphide in the glass of the bottle in which the mixture became discoloured.]

Miscellaneous Inquiries

Brushes (13/10).—STERILISING SHAVING-BRUSHES.—The methods of destroying anthrax spores in shaving-brushes were given in the *C. & D.*, I., 1921, p. 165.

H. C. J. (31/10).—You will find a special chapter on skin creams in "Pharmaceutical Formulas" containing many recipes for the various kinds. A "rachel" colour is obtained by the addition of annatto and caramel.

E. W. (10/10).—SILVERING MIRRORS.—The process is not one which can be carried out successfully without some practice, but if you desire to experiment the following are the particulars: Two solutions are required—a silvering liquid (1) and a reducing liquid (2). No. 1 is made by dissolving silver nitrate 30 grams in distilled water 240 grams, and treating with ammonia until the precipitate at first formed is redissolved, then filtering bright and making up to 480 c.c. with water. No. 2 solution is obtained by dissolving potassium sodium tartrate 0.75 gram in water 300 grams, and boiling. Next add silver nitrate 0.166 gram, and boil for from ten to fifteen minutes until grey. After filtration, make up to 480 c.c. with water. For use 30 c.c. of each solution is mixed, diluted with 120 c.c. of water, and poured over the surface of the glass to be silvered. In about an hour the whole of the silver will be deposited, the glass being then rinsed with water, set up on edge to dry, and finally backed with a protective coating of asphalt-varnish. The glass to be silvered must be chemically clean before the solution is poured upon it.

F. H. R. (31/10).—OAK IS DARKENED by several methods, but we cannot say that any of them leaves "a silvery grey surface." The processes used are (1) ammonia applied as a liquid or gas, (2) solution of potassium bichromate acidulated with sulphuric acid, and (3) solution of potassium permanganate. The bichromate method is much used, and is the one with which your customer should experiment.

E. & J. (26/10).—The addition of fœnugreek or anise to the cod-liver oil cattle-food would make it more tempting to animals.

H. S. B. (26/10).—LITHOGRAPHIC VARNISH.—The varnish applied to lithographic paper is composed of starch (6), gum arabic (2), alum (1), made into a thin cream with boiling water. The varnish is applied to the sheets of paper by means of a flat brush.

G. H. G. (21/10).—THE SHOP-JARS of which you send photographs are hardly old enough to have a collector's value placed upon them. The jars are of nineteenth-century manufacture, and are chiefly noted for the beautiful colours of the earthenware. Some chemists still use the jars as shop ornaments. The value is about 15s. each.

J. D. B. (31/10).—The rhubarb rhizome official in the British Pharmacopœia, 1914, must be collected in China and Thibet. English-grown rhubarb is inferior to the official rhubarb in medicinal qualities.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," November 15, 1871

The Council Meeting

The only reported business of general interest transacted at the last meeting of the Pharmaceutical Council was the discussion of the Society's affairs at Edinburgh. This arose from a letter addressed to the Council by Mr. Henry Deane, who described exactly what he saw. From his letter it appears that the North British Branch of the Pharmaceutical Society occupies two rooms at No. 16 Princes Street, situated along a narrow lobby and up two flights of stairs, which are available for one day only in the week. The library consists of about 300 volumes only; and the museum of drugs, chemicals, etc., excellent and carefully kept as they are, comprises but 450 specimens. The collection of specimens used for the purposes of examination is defective and poor, and totally unfit for the end to be attained. In accordance with the suggestions of Mr. Deane, it was resolved that something should be done to correct this condition of affairs, and a committee was appointed to ascertain what fresh arrangements are required, and at what cost they can be carried out. We hope they will see how much, and not how little, they can spend. We have no wish to see any multiplication of examination centres in a little country like this. But it is very fitting that there should be an official branch of the Society at Edinburgh, which, for the credit of the whole body, should be handsomely subsidised. It is very desirable, too, that the Scotch chemists themselves should sink local jealousies, and endeavour to make the North British Branch as important in fact as it is in name.

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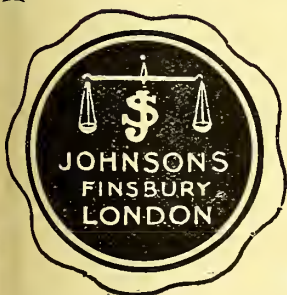
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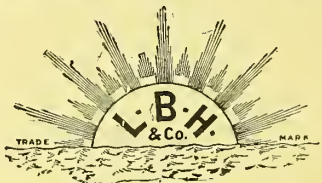
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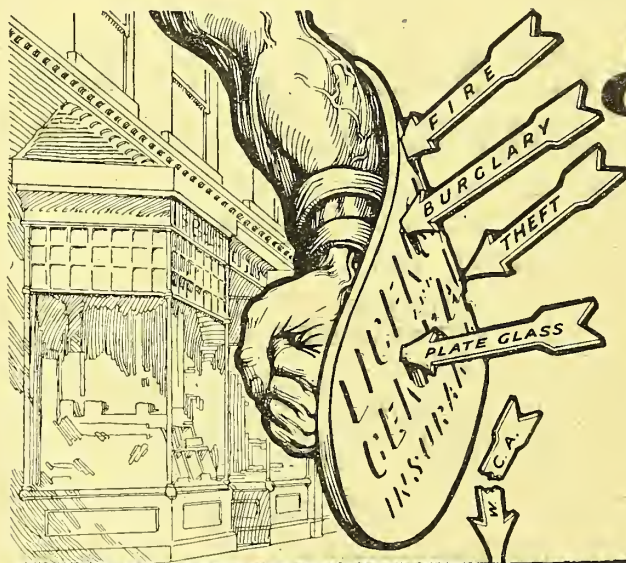
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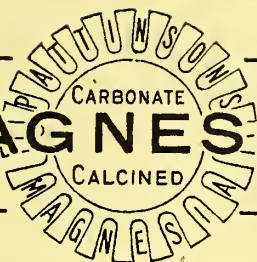
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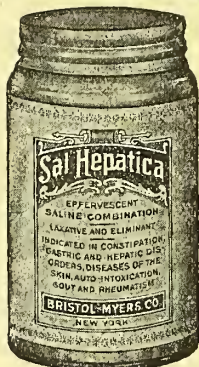
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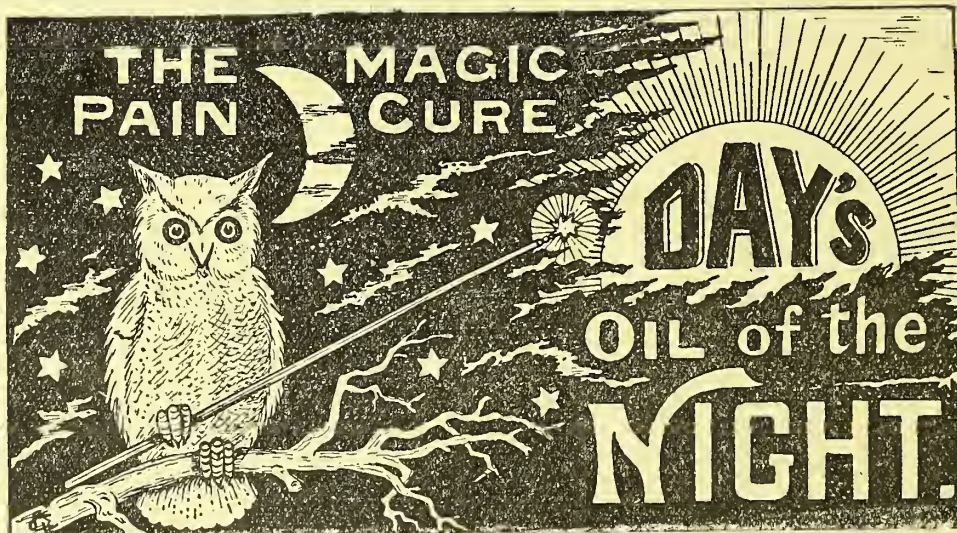
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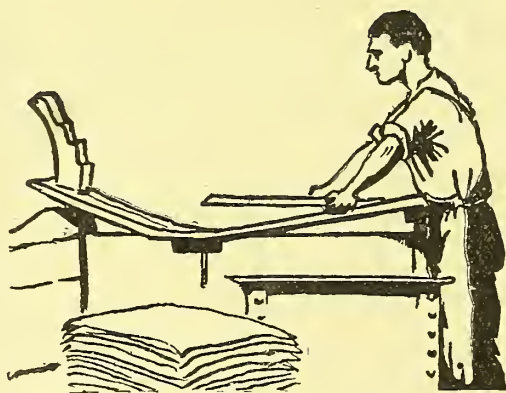
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HANDSOME PROFITS ASSURED. WINDOW DISPLAYS.
Prices and Terms on Application.

CAMWAL LTD. LONDON, MANCHESTER, BIRMINGHAM, BRISTOL, HARROGATE.
City Office: 52 Queen Victoria Street, LONDON, E.C.4.

WINGARNIS

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without a licence.*

Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

DR. HALE'S
VIN-SANGUIS
WINE FOR THE BLOOD

Fountain of Health

If you have a Wine License we will pay the fee.

If not, get one, we will pay license.

Send for any



You agree to display "Vin-Sanguis" always.
You give us an agreed initial order.
You always keep stock
further particulars

PROPRIETORS OF
DR. HALE'S VIN-SANGUIS

Transcontinental Agencies Ltd.
14, Southampton St., London, W.C.2

Vinum Xericum

BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

Grade A.	STRENGTH	16°5' - 17° Abs. Alc.
Grade B.	"	18° - 19° Abs. Alc.

James V. Oldham

19 St. Dunstan's Hill, London, E.C.3.

Telephone: Avenue 3013.

In Daily Demand for CONSTIPATION.

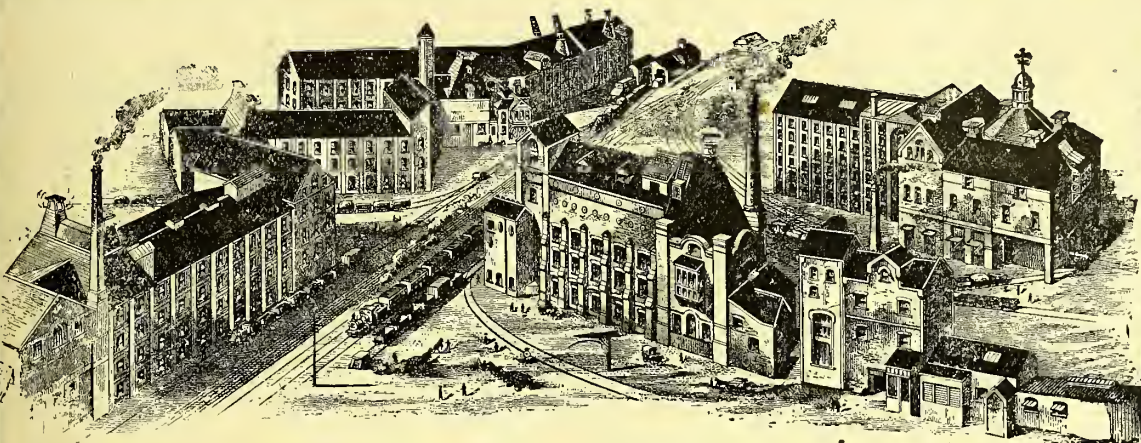
A prominent physician writes:—"Osmos" has worked wonders with a patient suffering from Chronic Constipation." Make a point of putting "Osmos" in the window now and then. It will pay you well.

Osmos

The Great British
Aperient Water

Trade Terms ... 22/- per dozen bottles, carriage paid.
Retail ... 2/6 per bottle (P.A.T.A.)

Osmos, Crown Wharf, Hayes, Middlesex. (1)



WORKS AT SAWBRIDGEWORTH

Actual Manufacturers
of
MALT EXTRACT
WITH
COD LIVER OIL
and similar products.

For many years H. A. & D. Taylor, Ltd., have been recognised as one of the principal manufacturers of Cod Liver Oil and Malt Extract. They offer you the Finest Quality Extract, combined with the finest Norwegian C.L.O. Best Quality Amber Jars with Glass Lids, High-class Labels and Showcards, &c. In Jars, Tins and other Containers, also in Bulk. Your own Name and Address on Labels.

H. A. & D. TAYLOR, Ltd.

(Proprietors of The British Diamalt Co.)

CITY OFFICE:

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Phone: City 1765.

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Works at Sawbridgeworth, Bishop's Stortford, Bury St. Edmunds, Newmarket, &c.

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OILED SURGICAL SILKS

EDWARD MACBEAN & Co., Ltd.

*Manufacturers of Oil-proofed and Rubber-proofed Cloths
of every description.*

*London Office—6 & 8 Lime Street Square, E.C. 3.
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Telegrams:

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Codes: Lieber's 5-Letter, A B C (5th Edition), and Marconi.

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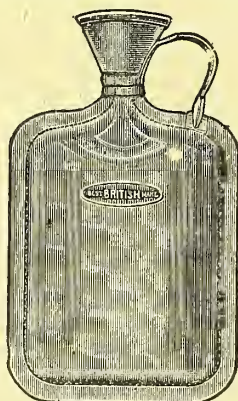
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TOMPKINS' CORNER

HOT WATER Bottles

and Covers.

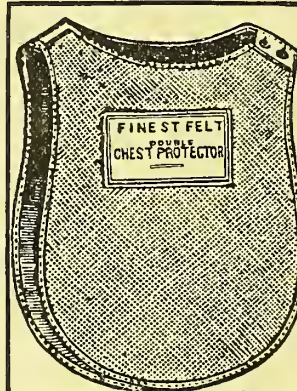
Best
British Make.



WRITE NOW—A postcard will bring you FULL and REDUCED Prices for coming season. THE HOUSE for all kinds of SURGICAL RUBBER GOODS for over 44 years.

JAMES TOMPKINS, LTD.

The Rubber House, 386 City Road, LONDON, E.C. 1
Estab. 1877. ALL-BRITISH FIRM. Phone: City 7640.



WE GUARANTEE
EVERYTHING WE SELL.

Send your inquiries for
Chest Protectors, Abdominal
Belts, Suspensory Bandages,
Finger Stalls, Maternity
Corsets, Magnetic Belts, Wrist
Straps, Surgical Hosiery, etc.,
to the Actual Makers—

A. B. FROST & CO.
Surgical Hosiery Works
BEESTON, Notts.

Established 35 Years. (1)

ESTABLISHED 1839

CHEMISTS' OVERALLS

From GARDINER & CO.

We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

KHAKI DRILL	...	10/6	15/6	17/6
WHITE DRILL	...	12/6		
BLACK DRILL	...	17/6		
HOLLAND DRILL	...	17/6		

Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
SPECIAL QUOTATIONS FOR QUANTITIES.

GARDINER & CO. (THE SCOTCH HOUSE) LTD.
1 Commercial Road, E. 1.

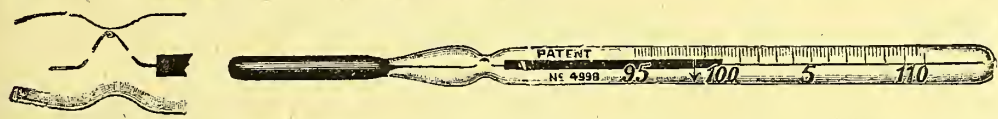
Telegr.: "Durastile, Phone. London." Phone: Av. 6650 (4 lines).

Druggists' Sundries

CLINICAL THERMOMETERS

REDUCTION IN PRICES

The "DUO-in-UNO" (QUICK SHAKE-DOWN)



This improved pattern of CLINICAL THERMOMETER has been specially constructed (as shown in diagram) with the object of doing away with the excessive exertion required to reset the index in the ordinary pattern.

There is no other Clinical Thermometer on the market that accomplishes this much-desired result so effectively as the "DUO-IN-UNO." The proverbial "brace of shakes" is not necessary—one shake does all that is required.

We are also makers of the well-known brand of "EMPIRE" (ordinary style) Clinical Thermometers, and with the view to introduce these goods to Chemists who have not yet tried either of these patterns we make the following SPECIAL CASH OFFERS.

CLINICAL THERMOMETERS.

In return for cash **20/-** we will send you post free the following assortment of "Empire" Brand.

	List price per doz.	s. d.
6 Hospital pattern ...	22/-	11 0
2 „ lens front	25/-	4 2
1 60 seconds, plain ...	26/-	2 2
1 „ lens front	28/-	2 4
1 30 seconds, plain ...	29/-	2 5
1 „ lens front	32/-	2 8

12 Thermometers for **20/-** List Price **£1 4 9**

In return for cash **20/-** we will send you post free the following assortment of "Duo-in-Uno" Brand.

	List price per doz.	s. d.
3 Hospital pattern ...	31/-	7 9
1 „ lens front	34/-	2 10
1 60 seconds, plain ...	35/-	2 11
1 „ lens front	37/-	3 1
1 30 seconds, plain ...	38/-	3 2
1 „ lens front	40/-	3 5

8 Thermometers for **20/-** List Price **£1 3 2**

The above offers will expire at the end of 1921. If you desire to take advantage of both offers you may do so, either at the same time or separately, but you cannot have more than one lot of either kind Money returned if goods are not satisfactory.

NOW READY, our latest Illustrated Price List of DRUGGISTS' SUNDRIES, post free for the asking.

BURGE, WARREN & RIDGLEY, Ltd.
91 & 92 GREAT SAFFRON HILL - LONDON, E.C.1.



The National Self-Adhesive RIBBON PLASTERS

(Spools or Tins).

Supplied in various widths and lengths to suit all requirements of Hospital, Medical or Retail Prices.

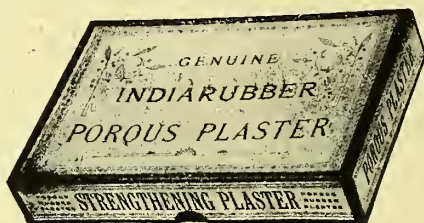
POROUS PLASTERS of all kinds

Strengthening, Belladonna, Breast, and Kidney Plasters.

N.H.I. Cotton Wool, Lints, Bandages, &c.

Write for Price List to—

A. de ST. DALMAS & CO., Ltd.
LEICESTER.



THE ORIGINAL

4/6

PER DOZ.

BLACK or

BROWN.



**PAROUBEK'S
"FOLDO"**

LACING

FINGER STALLS

SELF-ADJUSTING TO COVER BANDAGE.

AVOID IMITATIONS.

See the word PAROUBEK on every card.

From all Wholesalers or
direct from Sole Agents—

SOLPORT BROTHERS, Ltd.

184-190 Goswell Road - LONDON, E.C. 1.

PRINTING AT ITS BEST

Every Chemist,
Manufacturing or Retail,
realises the value of
"Printing at its Best."

IT MEANS:

**BIGGER SALES
INCREASED TURNOVER
CONTINUED SUCCESS**

Full set of samples sent abroad on receipt of 10/6

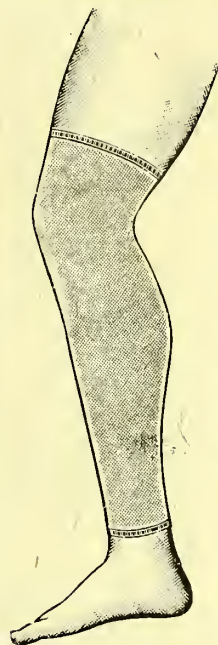
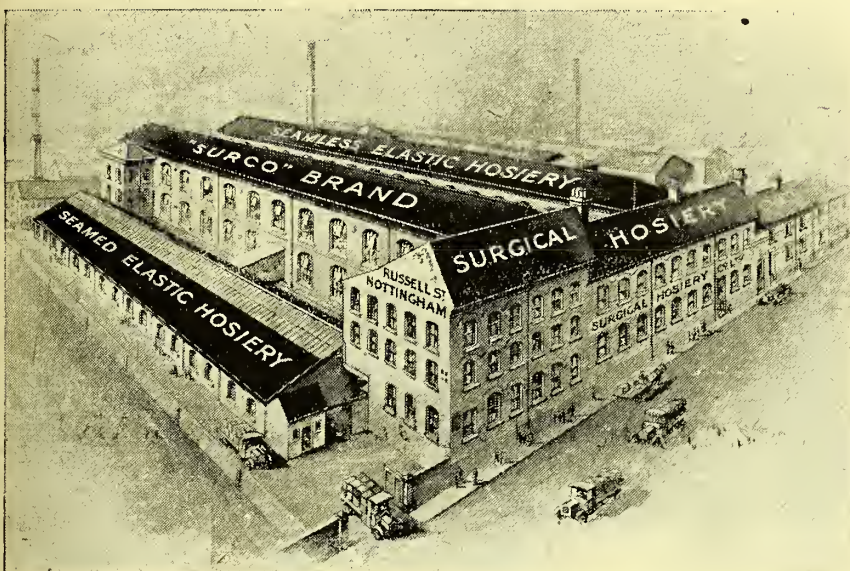
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Chemists' Printers,

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Telephone 26874.

Telegrams: 'Ideas, Leeds.'



Increase your business.—Window Show Leg and Stocking, 14/6, post free.
Or with Knee Legging, 18/6.
Measurement Forms, Instructions and Catalogue Free.

SURGICAL HOSIERY Co., Ltd. Dept. A, RUSSELL STREET, NOTTINGHAM

The RICE PATENT ADJUSTABLE ELASTIC TRUSSES

PADS—Various Shapes and Sizes, Hard or Soft.
ABDOMINAL SUPPORTS,
and SUPPORTS for use following Operations.
ALTERATIONS FREE IF NOT SATISFACTORY.
Illustrated Catalogue Free.

MANUFACTURED ONLY BY

Wm. S. RICE, Ltd., 8/9 Stonecutter St., E.C. 4

Telephone : Holborn 466.

Telegrams : "Ricevendo, Fleet, London."



Dr. SCHOLL'S TOE FLEX

corrects bunions and restores the
normal position of the joint by
straightening the crooked toe.
Made of finest surgical rubber.
Three sizes. Price 2/- each.

Dr. Scholl's Foot Comfort Appliances

enable you to give instant relief and permanent correction to every type
of foot trouble. They are nationally advertised and medically
endorsed. You will increase your profits and custom by selling them.

Write to-day for full particulars.

THE SCHOLL MFG. CO., LTD., 1-4 Giltspur St., London, E.C. 1.

J. H. HAYWOOD, LTD. CASTLE GATE, NOTTINGHAM.

INVENTORS
OF
SEAMLESS
ELASTIC
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SURGICAL APPLIANCE
MANUFACTURERS.



Specialities :

Abdominal Belts,
Trusses,
Suspensory Bandages,
Braces,
Elastic Web Bandages,
and Druggists' Sundries.

WRITE FOR PRICE LIST.

ESTABLISHED 1833.

TELEGRAMS : "APPLIANCE NOTTINGHAM."

Collapsible Tubes



Betts'
make
the Best

METALLIC CAPSULES,
COLLAPSIBLE TUBES,
SPRINKLER CORKS,
TIN FOIL
or LEAD FOIL.

Betts & Co. Ltd.
1. Wharf Rd., City Rd.
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Established 1857.

A
**PHILIP JOSEPHS
& SONS LTD.**
SHOWCASE
**QUICKLY EARNS
ITS COST.**

Try One!

93 OLD ST., LONDON, E.C.1.

Phone—2191 Clerkenwell.

Wires—"Josephs London."

SHOWCASES

UPRIGHT CENTRE CASES, WALL CASES,
GLASS COUNTERS, MIRRORS,
WINDOW FITTINGS, GLASS SHELVES,
SHOW STANDS, DRAWERS, DESKS,
CHECK TILLS, &c. Immense Stock.
NEW and SECOND-HAND.

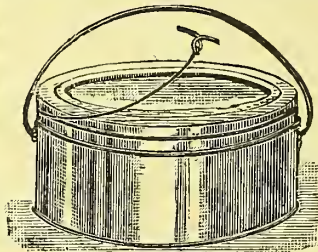
Ready for Immediate Delivery.

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169 Old St., LONDON, E.C. 1.

The Northern Tin Canister Works,

6 Morsay Street,
LIVERPOOL.

Manufacturers
for the
Chemical Trade.



Patent Air Tight Slip-lid Tin
for Export.

TIGHT SEAMING &
VARNISH BOTTLES
A SPECIALITY.

Prompt Deliveries Assured.

BOXES

For the Chemist, Druggist and Sundriesman.

Send your Sizes or Samples, and we will quote you by return. No order too small. No order too large. We **KNOW** your wants and will fit you.

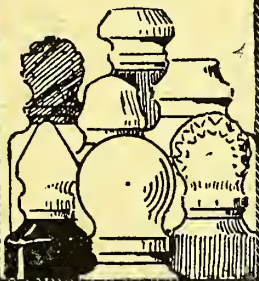
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98 Shepherdess Walk, City Road, London, N.1.
Telephone North 3747.

**SELF-FIXING
HERMETIC
WASHABLE
BOTTLE CAPS**

ARE
ELEGANT
EFFICIENT
STRONGEST
CHEAPEST
and BEST.

The **VISCOSE**
Development Co., Ltd.
BROMLEY : KENT.



Use **CORRY'S Original**
**TOBACCO
LICE POWDER**

for Cattle, Poultry and all Animals. No risks from Chill as by Washing.

Sold by all Chemist, 1/9 and 3/-

FOOT ROT OINTMENT, a speciality: 1 lb. size 1/6
Write for List.
CORRY & CO., LTD., Shad Thames, London, S.E. 1.

The First and Original
Brand. Introduced in 1864.
Beware of Imitations.

**XMAS WINDOW TICKETS &
WINDOW POSTERS**

produced in Artistic and Refined Colourings
for advertising Christmas Presents.

List CD600, showing 100 Designs, **FREE.**

DUDLEY & COY HOLLOWAY ST LONDON. N.9

Approach the **BEST RESIDENTS**
in your district by personal
persuasive letters, giving particulars of
any **SPECIAL LINES** or **NEW**
GOODS you have to offer.

Any number of perfect copies of Letters or Circulars
can be easily, cheaply and quickly made by the aid of

Ellams Duplicator

Write for details to—

ELLAMS DUPLICATOR Co., Ltd.
CD 12 KING ST., CHEAPSIDE, E.C. 2

MENTION

ROBINSONS' MAKE

WHEN ORDERING FROM
YOUR WHOLESALE HOUSE
YOUR NEXT SUPPLY OF

PILL BOXES



BRITISH MADE BY BRITISH LABOUR.

SUPPORT HOME INDUSTRIES.

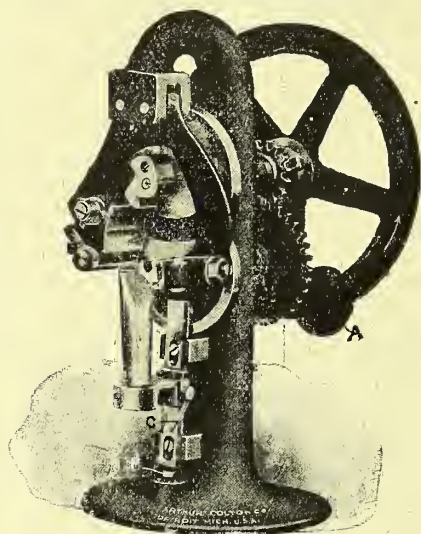
ROBINSON & SONS, LTD.

BOXMAKERS TO THE
CHEMIST TRADE

CHESTERFIELD.

ARTHUR COLTON COMPANY

HAND TUBE CLOSER



This machine is made in two sizes to suit a range of tubes and where output does not warrant the purchase of a power machine. Compact and requiring very little space, the machine can be screwed to any table, two revolutions of the hand wheel completing the operation of closing the tube.

For tubes not above one inch diameter the No. 1 size is the handiest to use.

SPECIFICATION:

	No. 1.	No. 2.
CAPACITY PER MINUTE ...	15 TUBES	15 TUBES
DIAMETER OF TUBES ...	$\frac{1}{4}$ " to 1"	$\frac{1}{4}$ " to $1\frac{1}{2}$ "
IS ADJUSTABLE FOR LENGTH ...	2" to 6"	2" to 7"

Sole British
Selling Agents:

JOHN J. GRIFFIN & SONS, Ltd.

KEMBLE ST., KINGSWAY, LONDON, W.C. 2.

WHITE CHINA POMADE POTS

WITH COLOURED CELLULOID CAPS.

The Brightest and Cheapest on the Market.

Well and cleanly made.

They sell the goods they contain.



Made in TALL and SQUAT shape.

ALL SIZES.

Also POTS WITH ALUMINIUM COVER.

„ „ SCREW CHINA CAPS.

BUTTER POTS, LIPSALVE BOXES, etc.



HENRY W. BUSH & CO., LTD.

REMBRANDT WORKS, COMMERCIAL STREET, LONDON, E.1.

A GRANULATING MACHINE

Patent applied for.

DURING the slack time we have been concentrating our efforts and experience on the invention of a new labour-saving machine, which has been badly needed for a long time—a power machine for granulating powder in its preparation for compression into tablets.

We have been very successful, and have produced a most excellent machine for the purpose; output large, sieves easily changed, interior parts porcelain-enamelled, and no complicated devices to get out of order.

Lists are not yet ready, but we shall be pleased to receive enquiries, and shall also be pleased for customers to bring a few pounds of powder and test the machine here. Several of our customers have done so, and have placed orders.

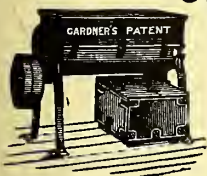
S. W. WILKINSON & CO.

Pharmaceutical and Chemical Engineers,

WESTERN ROAD, LEICESTER.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS



OVER 6,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.

FOR HAND OR POWER.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER



BOOKS FOR PHARMACISTS

Send us a postal card and we will send you a 32-page catalogue of professional and business books for pharmacists, and a copy of

"THE SPATULA"

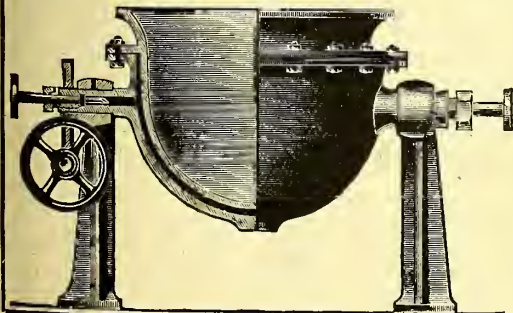
an Illustrated monthly magazine for druggists, full of American snap and enterprise.

THE SPATULA PUBLISHING CO.

BOSTON 14, MASS., U.S.A.

ENAMELLED IRON APPARATUS

Suitable for all Temperatures and Pressures



DANTO ROGEAT & CIE,

33-39 Chemin des Culattes, LYONS, France.

Suppliers before the War to the largest European Manufacturers of Chemical Products.

Write for Price List to Sole Representative:

**H. SLOOG, 45 Great Marlborough Street,
LONDON, W. 1.**

Telep.: Regent 2460.



Postcard Enlargements

from Small Negatives. • Highest
Quality • Prompt Return.

THE EXPRESS
DEVELOPING CO.
23 OSBORN ST., E. 1.

SPECIALITY:

Exquisite Miniatures in
Water Colours, Sepia, etc.
Write for Price List, Free.

POSTCARD ENLARGEMENTS

1 dozen from the same negative

B. & W. 2/- Sepia 3/-
per dozen per dozen

LET US DO YOUR

DEVELOPING & PRINTING

BEST WORK & QUICK SERVICE.

SHAWYER, SWINDON,
WILTS.

ENLARGING

FOR THE TRADE.

We specialise in Dainty Enlargements;
the class that satisfy customers and build
business.

Write for Trade List (D.) to-day.
PROMPT DELIVERIES. AMPLE PROFIT.

Wallace Heaton Ltd.
INCORPORATING
**WATSON'S
CAMERA
HOUSE**

CHANGE ALLEY, SHEFFIELD.

Alcohol for Industrial Purposes Duty-Free Spirit.

The Industrial Spirit Supply Company, Limited.

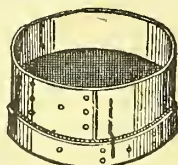
Agents: HONEYWILL BROS., 79 MARK LANE, LONDON, E.C.3.

PURE ORANGE WINE A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopoeia.
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C.3.

(Wholesale only)



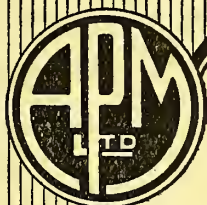
For your Sieves and Wire Gauze try the actual Makers!

S. RAMSEY & CO.,

198/202 ST. JOHN STREET, E.C. 1.

Telegrams: "Methodical, Smith, London."

Telephone: Holborn 6337 (3 lines).



Think of the possibilities which Autumn evenings afford for hours of leisure in which to take prints from films and plates exposed during the holidays.

Are you resolutely reaching out for *your share* of the trade in

RAJAR

Gaslight Papers

which is a large and steadily increasing item in the returns of hundreds of Photographic Dealers.

Remember also that for your own use in printing from amateurs' negatives you cannot do better than adhere rigidly to RAJAR BROMIDE or GASLIGHT PAPERS and CARDS. They afford greatest ease in handling and yield best results.

*Lists of all A.P.M. Supplies
and fullest information free
from Sales Manager
on request.*

AMALGAMATED PHOTOGRAPHIC MANUFACTURERS, LIMITED,

Head Offices 3 SOHO SQUARE, LONDON, W.C.1.

Telephone: Regent 1230 (3 lines).

Telegrams: "Noiram, Ox, London."

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MARION & CO., Photographic Plates and General Supplies.

RAJAR CO., Gaslight and Bromide Papers, Films and Plates.

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PAGET PRIZE PLATE CO., Self-Toning Papers and Plates.

A. KERSHAW & SON, Cameras and Scientific Instruments.

MARION & FOULGER, Photo Mounts and Frames.



THE "EXCELLENCE" of Rodine and The Rodine Agency

Mr. JAMES GILLESPIE, Chemist, Belfast, writes: October 14, 1921. "I sell none other but your 'Rodine' Rat Poison. I find it the most effective and best exterminator of any poison on the market, and I will say this much, you deserve every support from the trade the way you assist sales with advertisements and cards. Wishing you all success."

Mr. R. C. MORLEY, Chemist, Woodstock, writes: October 19, 1921. "I sell more 'Rodine' than all other makes of Rat Poisons put together, and I always push it, not only on account of the excellent profit it shows, but because 'Rodine' "

'Really Kills Rats'

as my customers prove to me."

Rely on "Rodine" for the rats. It pays nearly 100% protected profit. Send your order direct, and get it at best terms from the Sole Maker—

HARLEY, Manufacturing Chemist, PERTH, Scotland.

STOCK LABEL CATALOGUE.

YOUR COPY
AWAITS YOUR
APPLICATION

**JAMES TOWNSEND & SONS,
EXETER.**

LONDON OFFICE—
54, FARRINGTON STREET, E.C. 4.

GOOD REASONS for ADVERTISING in the "CHRISTIAN HERALD."

"CHRISTIAN HERALD" readers have money to spend with the advertisers in their paper.

A small advertisement in the "CHRISTIAN HERALD" offering two Debentures of £25 each brought application for over £1,500. Messrs. The British Vacuum Washer Co., Waterloo Road, Liverpool, in a letter to the "CHRISTIAN HERALD" dated February 17, 1921, say: "We have great pleasure in bearing testimony to the splendid pulling power of your valued paper. We do not make a rule of writing testimonials, but we feel it to be our duty to do so in this case. We have been advertising in the "Christian Herald" for a considerable time, and the very large number of orders which we have received bears eloquent testimony to its value as an advertising medium."

A Leicester firm of Boot and Shoe Manufacturers, writing to the "CHRISTIAN HERALD" in March, 1920, said: "The result of the advertisement in only one issue has been so good that it surprised us: we have been so rushed with orders that in a few cases we have not been able to supply yet. The £18 advertisement has brought nearly £300 worth of satisfied customers from the British Isles, Shetland and Orkneys, Jersey and Guernsey, etc." A further letter from the same firm dated Jan. 1, 1921, says: "The total business done from our original advertisements in February and March, 1920, runs into over £8,000 to date. The original advertisements cost £26 10s."

A firm of Manufacturers' Agents, writing on Sept. 30, 1921, says: "The advertisement has proved quite satisfactory," and in giving instructions for their advertisement to be continued, say: "We find missing a week is very detrimental to us."

It pays to advertise in the "CHRISTIAN HERALD"

The circulation is the largest of any religious newspaper in the world, and orders for goods advertised are received from all quarters—from the Shetland Isles to New Zealand.

For Specimen Copy and Rate Card, apply to—
The Advertisement Manager, 6 TUDOR ST., LONDON, E.C. 4.

PHOSFERINE

The wholesale price of PHOSFERINE is as follows:

1/3 Size	....	....	12/- doz. Net		
3/-	„	....	30/-	„	„
5/-	„	....	48/6	„	„
12/-	„	....	114/-	„	„

The retail prices of PHOSFERINE and all our other Proprietary Medicines are now fixed at the face value, viz.

1/3, 3/-, 5/-, and 12/-

SPECIAL WINDOW DISPLAY OFFER.

Against the conditional £5 worth of PHOSFERINE being taken, a bonus of 10/6 will be allowed for a Phosferine Window Display of not less than two weeks.

EXAMPLE:

	COST	SELLS FOR
3½ dozen 1/3 size at 12/- net ...	£2 2 0	£2 12 6
2 dozen 3/- size at 30/- net ...	£3 0 0	£3 12 0
	£5 2 0	
Less 10/6 for Window Show ...	10 6	
	£4 11 6	£6 4 6

GIVING YOU A PROFIT OF OVER **35 %**,
OR **£1 13 0.**

ASHTON & PARSONS, LTD.
LA BELLE SAUVAGE, LUDGATE HILL,
LONDON, E.C.4

PARNALL & SONS, Ltd.

Shopfitting Specialists

27 SUMMER ROW, BIRMINGHAM.



83 MANSELL STREET,
LONDON, E. 1.

OUR EXPERTS ARE AT YOUR SERVICE—
to give practical form to your needs, and to translate
your desires into beautiful and workable reality.

44 BROADMEAD,
BRISTOL.

THE CHEMIST AND DRUGGIST SUPPLEMENT

2 CANNON ST.
LONDON E.C. 4

NOVEMBER 5, 1921

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

ADDRESSED WRAPPERS STAMPED ONE PENNY

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements
ded for the Supplement must be sent not later than the **FIRST POST THURSDAY MORNING.**

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No : City 2283.

may be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

WESTMINSTER BRIDGE (Busy Shopping Thoroughfare).—Money Business; returns, under management, upwards of 25%; scope for doubling the returns under energetic super-tenant £260; held on lease; prompt sale desired.

STRATFORD.—General Retail and Prescribing Business, excellent opening for N.H.I.; returns last year, £2,000; net profit 25%; double-fronted shop, well fitted and fully stocked. 1,000.

TY PHARMACY.—Expiration of Lease.—For disposal, the shop and fittings, together with the stock-in-trade, the whole removed by the 24th December next; this is a good opportunity for a Chemist contemplating opening a Pharmacy to the whole at a reasonable price.

EASTERN SUBURB.—General Retail Business, with N.H.I. opening; returns, under management, between £30 and £40 weekly; lock-up shop; held on lease at a rental of £35 per annum; further details on application.

LONDON, S.E.—Cash Retail Business, situate in busy main thoroughfare; returns £1,700, at good prices; excellent opening for pension under qualified management; lock-up shop; held on lease; further particulars on application.

WYTONSTONE (near).—Ready-money Business; no immediate disposal; returns, present rate, exceed £20 weekly; good garden; moderate rental; long lease; price about £650; on entry and balance by instalments.

SOUTH COAST.—Cash Retail Business, including postal and dental connection; gross receipts about £12,000 per annum at full prices; further particulars on application.

8.—**LIVERPOOL**.—Ready-money Business, well situated in busy shopping thoroughfare; gross receipts £2,000; net profit £400; good opening for qualified man; price £850; the premises may be purchased if desired.

9.—**SOUTH COAST**.—Dispensing and Retail Business, capital situate in the centre of town; returns £5,000 (present rate); net profit about £1,000; well-fitted shop; stock above the average; the business has been known to us for many years, and we can recommend it as a sound investment.

10.—**CHESHIRE**.—Light Cash Retail Business; returns between £3,500 and £4,000, at good prices; single-fronted shop; modern fittings; amply stocked; held on lease at low rent; further details on application.

11.—**WEST OF ENGLAND (Coast Town)**.—Established Business; excellent position; sea view; returns between £2,000 and £2,500 yearly; net profit 25%; well-appointed shop, fully stocked; price £1,800.

12.—**SOUTH WALES**.—Retail and Dispensing Business; very old-established; returns, present rate, about £2,400 yearly; comfortable residence, with garden; full details on application.

13.—**CHESTER (near)**.—General Retail Business, returning £2,000 per annum, at usual prices; small house; satisfactory reason for disposal; price about £1,000; bankers' reference required.

14.—**WESTCLIFF-ON-SEA**.—Old-established Business, Retail and Dispensing; returns between £2,000 and £2,500, increasing; profits good; there is a residence, with garden, bathroom; held on lease.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit, Value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jowry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

1. KENSINGTON. Good-class light retail and dispensing business, in splendid position, mostly ready money. Returns £3,700. Net profit nearly £1,000. Modern fitted pharmacy; heavily-stocked. Price £2,750, or valuation terms arranged.

2. SOUTH LONDON. Light cash retail, in busy marketing thoroughfare. Returns £40 to £50 weekly, entirely under manager; low rent; long lease; good stock. Price £1,200 cash.

SPECIAL NOTICE TO INTENDING VENDORS.

BERDOE & FISH are anxiously seeking, on behalf of applicants, good sound businesses up to £3,000 cash, and will be glad to hear from owners wishing to sell, or to advise those contemplating same.

STOCKTAKING VALUATIONS.

We are now booking dates for November, and invite early applications for our special terms.

ESTABLISHED 1870.

The Association of Manufacturing Chemists

— LIMITED —

Head Offices—26/28 Kimberley House, Holborn Viaduct, London, E.C.1

(and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Accountant & Valuer.

PHONE: CITY 6942.

WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—MIDDLESEX.—Pleasant London suburb; good-class Retail and Dispensing Business, held on good lease at rental of £75 per annum; cash takings about £60 per week; old-established; large house attached; no Photo or Optics, but excellent scope for same; nicely fitted and well stocked.

2.—NORTH-WEST SEASIDE TOWN.—An exceptionally good Business, in prominent position of large town; returns £4,500 per annum; handsome shop, and large house attached; also Wholesale Photographic connection; price about £5,500, which includes 990 years' leasehold property; profits estimated at about £1,300 per annum, and stock valued at 1,800-£2,000.

3.—LONDON, E.—General Retail and Dispensing; returns about £800 per annum, at good profits; premises held on long lease at £50 per annum, rising in 1922 to £42 per annum; part dwelling accommodation let off at £39 per annum; price £650; part purchase price could remain.

4.—Wholesale Business, dealing chiefly in Toilet Specialities; established four years; excellent connections; good turnover; factory 3,000 square feet, with house adjoining; held on lease of 21 years; fullest investigation invited; balance sheets can be inspected; fullest particulars on application.

5.—Small Manufacturing Toilet Business, in pleasant Surrey town; excellent factory; held on very low rental; scope for great improvement; inspection invited.

Stocktaking and Valuations for all purposes undertaken upon Reasonable Terms.

PARSON C. BAKER, Ph.C., M.P.S.

W. ROOKE ROBERTS, M.P.S., F.S.M.C.

174 VICTORIA STREET, S.W. 1. Tel.: VICTORIA 27.

Valuers for Transfer, Income Tax, Probate.

Recommended by the British Drug Houses, Messrs. Meggeson, Ltd., Messrs. Barclay & Sons, Ltd., etc.

Strict personal attention is given throughout to all stocktaking. Write early for special terms.

BRETT & CO.

All Valuations have the personal attention of F. J. Brett, M.P.S.

Transfer Agents and Valuers,

73 LAUREL ROAD, LEICESTER.

Telephone: 1934.

BUSINESSES WANTED.

ERNEST J. GEORGE

EXPERT CHEMISTS' VALUER, STOCK-TAKER AND TRANSFER AGENT

IF STOCK TAKEN BY YOURSELF REMAINS UNPRICED I CAN COMPLETE THE WORK FOR YOU AT A VERY MODERATE CHARGE.

202 Birmingham Road, Walsall.
5 Oswald Street, Glasgow.

PARTNERSHIPS.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

CHEMIST, 15 years' busy Dispensing experience and management, thoroughly capable, desires partnership in suitable business; capital available, £325 in first instalment; second instalment if required. Apply 271/28, Office of this Paper.

PARTNERSHIP.—Chemist, commencing business in the Wholesale Chemists' Sundries, wishes a partner who understands the buying and able to act as representative; with or without capital. Apply 270/1, Office of this Paper.

PHARMACIST, 39, with small capital, 20 years' West-End experience, seeks Managership, Partnership, or similar appointment showing reasonable return for money and service. London preferred. H. Cooper, 3G Portman Mansions, Baker Street.

WANTED, young Pharmacist, with ambition and experience in all branches of the trade; capable of taking complete control of a large Retail and manufacturing business; energetic and initiative; with a capital of about £4,000; excellent opportunity for man with little capital to make good; East Midland Apply, in strict confidence, to 265/19, Office of this Paper.

TENDERS.**WIGAN UNION.**

The Guardians of the Poor of the Wigan Union invite Tenders for the supply of Drugs, &c., to the Poor Law Infirmary at Milling, near Wigan.

Forms of Tender, containing the conditions of Contract and probable quantities of articles required, may be obtained from me, the undersigned, and must be returned not later than the 2th instant.

By Order of the Board,

H. GORDON ACKERLEY,
Clerk.

Victoria Buildings, King Street, Wigan.
1st November, 1921.

AGENCIES.

PARIS AND BERLIN OR HAMBURG.—Advertiser, Chemist, South Africa, wishes to correspond with either Chemist or Merchant who will act as his local Buying and Shipping Agent of country's productions, at local current rates, upon a substantial commission and cash with indent basis. Reply, also giving accompanying bank's references, in English, to 268/35, Office of this Paper.

A WELL-KNOWN firm, manufacturing Toilet Specialities and having a large factory and very complete distributing and selling organisation, is open to negotiate with owners of any well-known Toilet article for manufacturing or selling, or both. Both parties would thus save on overhead expenses. Please write in first instance, in strictest confidence, to "Managing Director" (9/250), Office of this Paper.

AGENCY.—Gentleman, at present engaged, with 12 years' service, as Representative with important firm of manufacturers of Fine Chemicals, Alkaloids, and Pharmaceutical Products, desires sole representation of similar lines in this country; Continental or American manufacturers entertained of established reputation; highest experience in administrative detail and propaganda organisation; and able to introduce important interests. Apply 251/2, Office of this Paper.

POWDER PUFFS.—20 per cent. commission offered to gentleman; London and suburbs; tip-top connection amongst Chemists, Perfumers, and Departmental Stores, etc.; Scotland and certain other territories open for suitable men; fine range, novel and quality samples; full particulars in confidence. Apply 269/27, Office of this Paper.

TOILET AND HOUSEHOLD SOAPS.—British firm, representing large Danish factory, require Sole Agents for English Counties. Such Agents must have thoroughly tested and up-to-date sales organisation and good connection with Chemists, Grocers, and Stores in their district; districts under sole control; soap of excellent quality and prices appealing to consumers, and will sell readily. Write, giving particulars of districts covered, to P. and S., Box 944, Sells' Advertising Offices, Fleet Street, London, E.C. 4.

WANTED, firm to act as Distributing Agents for the United Kingdom, for well-known German Chemical Specialities; connection with Doctors and Institutions necessary. Write, in first instance, to "X." (45/48), Office of this Paper.

BUSINESSES WANTED.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

SOUTH Coast (Brighton preferred), small Retail Business required (at once); cash waiting; full particulars and price, which will be confidential. Apply Alexandra, 3 Mavis Bank, Preston Park, Brighton.

CHEMIST'S Business, with Dental connection, in or near London, in a neighbourhood with scope for development; must bear the strictest investigation. Reply, in confidence, with the fullest particulars, to "Dental Chemist" (268/26), Office of this Paper.

WANTED, small Drug Store and Pharmacy (or neglected Business), in busy district, in or near London; please state price, etc.; replies treated as confidential. 272/12, Office of this Paper.

FOR SALE.

FIXTURES, PLANT AND STOCK (SMALL) of a good-class Chemist's shop, 156 Church Street, Stoke Newington, to be Sold by Tender; premises coming down. Valuable opportunity to man starting business. Viewed any day between 10 and 4 on application to the Library adjoining. Offers to be sent to the Librarian, Public Library, Stoke Newington, on or before November 12th. The vendors do not bind themselves to accept any tender. Immediate removal is not obligatory.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ISLE OF MAN.—Old-established Cash Chemist's Business for Disposal; owner retiring. Apply T. H. Hodson, Agent, 10 Athol Street, Douglas.

LONDON, E.—Good medium-class Light Retail, with ample scope for increase; returns about £900; good house; rent £42; shop well fitted; practically unopposed. Apply 45/47, Office of this Paper.

LONDON, W.—Drug Store for Sale; splendid position in main road; no multiple shops near; wonderful scope for qualified man; the position must appeal to any Chemist; living accommodation; further particulars on application; price £500, or nearest offer secures. P.C.B. 60/24, Office of this Paper.

SUBURB, W.—Cash trade, £47 weekly; medium-class neighbourhood; trial allowed; rent £50; lease 14 years; single-fronted shop, five rooms; possession on completion; first to view will buy. Cooper & Son, 30 Brackley Road, Chiswick, W. 4.

CHEMIST Shop for Sale, situated in country town; very good centre (nearest Chemist 9 miles); well fitted; no stock to take over; very old-established Business, and house in excellent repair; vacant possession. Apply Drs. Robinson and Dean, Kimbolton, Huntingdon.

ESTABLISHED country Business, unopposed, returning £1,700, in South Midlands; rent £45; lease 19 years; good house, redecorated, seven rooms; price £1,400, together with garden; five minutes' walk from shop, fully planted fruit trees, etc., and fenced, £200. "Aspirin," c/o Sangers, Euston Road, London.

GOOD Retail Chemist's Business for Sale in Dudley; established over 50 years; owner deceased. Apply Baynton, 133 New Street, Birmingham.

SITUATIONS OPEN.**RETAIL.**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

CARDIFF.—Capable Assistant required shortly; reliable Dispenser and tactful Counterman; knowledge of Photography desirable and aptitude for Window-dressing; highest references essential. Apply, stating age, height, and salary required, to J. Mason, 219 City Road, Cardiff.

BIRMINGHAM.—Manager required for Drug Stores; commission on profits; permanency to a good man; state age, whether married, and when at liberty. Apply 269/31, Office of this Paper.

BRIGHTON.—Required, as soon as possible, Junior Assistant for good-class Retail and Dispensing business. Apply, with full particulars as to age, experience, salary required, etc., to F. C. Jackson, 16 Western Road, Hove.

LONDON, N.—Qualified man wanted, one used to middle-class General, Retail; usual hours; permanency to a man that is willing to make himself useful and accept moderate salary. Usual particulars in first letter to "Aspirin" (272/16), Office of this Paper.

LONDON, N.W.—Qualified Junior Assistant for Dispensing business; state full particulars, age, experience, height, salary. F. Davidson, Ph. Chemist, 342 High Road, Brondesbury, N.W.

LONDON, S.W.—Chemist-Optician (F.S.M.C.) requires an Assistant with knowledge of Optics; must be a smart Salesman and Window-dresser; permanency. Photo, age, experience, and salary required, to 270/13, Office of this Paper.

LONDON, W.C.—Wanted, qualified part-time Assistant for evening work chiefly (other time by arrangement); must be a good and quick Dispenser; personal application. Burden & Co., 41 Store Street, Bedford Square.

MANCHESTER.—Smart Junior Assistant required; must be accurate Dispenser and used to N.H.I. Apply, stating age, experience, and salary required, to 272/17, Office of this Paper.

NORTHAMPTON.—Required (immediately), for quick cash business, with N.H.I. and Photography; an experienced Assistant, of good appearance and address; a good Window-dresser and Counterman, with knowledge of Photography; permanency for suitable man; please give full particulars, salary required, etc., in first letter, with photo, if possible. Ingle, Barrack Road, Northampton.

ASSISTANT required with good Dispensing and Counter experience; please give full particulars, also state age and salary required. Darling & Roberts, 81 Stoke Road, Gosport, Portsmouth.

ASSISTANT, just out of apprenticeship, required for mixed country town Pharmacy; easy reach of London; outdoors. Give particulars and wages required to 15/69, Office of this Paper.

GOOD all-round unqualified single Assistant required in a Pharmacy about 30 miles from London; must be polite; Photographic, Dispensing, etc; full particulars in first letter. Apply 270/280, Office of this Paper.

JUNIOR Assistant, well educated, required in Dispensing business. Please apply, by letter in first instance, giving particulars of training and experience, to K. R. Gladden, 567 Finchley Road, N.W. 3.

PART-TIME Junior Assistant required for evenings and Saturdays; some Dispensing experience necessary; must have satisfactory references. Apply, stating age, experience, and salary required, by letter, to C. B., 20 New Street, Dorset Square, N.W. 1.

PART-TIME.—Young unqualified Assistant required, three or four evenings weekly and all or half-day Saturday; 15 minutes from Clapham Common; must be reliable Dispenser and used to quick Counter work; good references essential. Please state age, height, and time at liberty, 271/18, Office of this Paper.

QUALIFIED Chemist wanted in the near future as Manager for a Retail business; one with suburban experience preferred; references must bear the strictest investigation. Apply 264/37, Office of this Paper.

RELIABLE Assistant; Dispensing, polite Salesman, Photographic; single; outdoors; one not taking Minor for one or two years preferred. Full particulars to 270/28, Office of this Paper.

REQUIRED (immediately), young lady, Minor qualification, for light Retail and Dispensing; outdoors; knowledge of Photography and Window-dressing an advantage; please state salary required and give full particulars; letters only. Day-Lewis, 12 High Street, Old Woking, Surrey.

WANTED (immediately), capable Assistant, experienced in Dispensing, Counter work, and preferably, but not necessarily, in Dentistry. Give full particulars as to experience and salary to Gilbert Thomas, Chemist, Risca, Mon.

YOUNG ladies required with knowledge of Retail Pharmacy, for office work. Apply, by letter, to 270/34, Office of this Paper.

WHOLESALE

The Advertiser may, if referred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

SHEFFIELD AND SOUTH YORKSHIRE.—Qualified Representative (preferably with connection) required for this ground by leading Wholesale Drug house. State age, experience, late firms, etc., to 13/50, Office of this Paper.

COMPRESSED Tablets.—A man required, to take charge of a small department; experienced in Granulating and Machine work; Lancashire district. "Lancs" (13/51), Office of this Paper.

LADY Typist wanted for Managing Director's correspondence; must have knowledge of Drugs and Chemicals. Apply, by letter, stating previous experience, age, salary, etc., to 43/28W, Office of this Paper.

MANUFACTURERS of Toilet Preparations require part-time services of man, freely conversant with manufacture of high-class cream compacts, etc. Apply Fisher & Co., 4-6 Muswell Hill Road, N. 6.

PHOTOGRAPHIC DEPARTMENT (WORKROOMS).—Wanted, a capable man for our workrooms doing amateur work; must be quick and reliable; one used to tank development and electric printing, enlarging, copying, etc. Send full particulars and salary required to E. Phillips, Foxfoto, 8 Castle Street, Sheffield.

PROFITABLE high-class side line.—Manufacturer, introducing and widely advertising very attractive Toilet Preparation, can place same as side-line, on generous commission basis, with Travellers already representing first-class firms; districts still available are South-Eastern and Southern Counties, West Country, South Wales, Border Counties, and Scotland. Write, in confidence, stating full particulars and district covered, to 45/46, Office of this Paper.

PROGRESSIVE Sundries and Dressings House require first full-time Representative, with London connection; so commission, and expenses. Apply, stating full particulars, in letter, to P.C.B. 60/36, Office of this Paper.

REPRESENTATIVE WANTED.—Wilkinson & Simpson, Newcastle, thank all applicants, and now intimate vacancy has been filled.

REPRESENTATIVES, with established connections, required by manufacturers of excellently packed proprietaries, pens and commission only; other representation not object if not competing. Please state territory covered, age, and occupation, in strict confidence, to 30/57, Office of this Paper.

TRAVELLER on commission wanted, with connection as users of Gum Tragacanth. Reply, with full particulars, Dennis, 62 London Wall, E.C. 2.

TRAVELLERS wanted, calling upon high-class Chemists, Perfumers, and Perfumiers, for a new line which will have instantaneous sale. Only men who can prove undoubted ability and good connection need apply to Barron Product Co., 4 James' Road, Southsea.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

SHANGHAI.—Assistant, British born, age about 28, with class experience, for high-class Dispensing and Photographic business; three years' agreement. Apply, with full particulars, to 7/33D, Office of this Paper.

INDIA.—Qualified Chemist required as Manager of Drugs Department in distributive house in India. Write, with full particulars, to Box 939, Sells Advertising Offices, Fleet Street, E.C. 4.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—MANAGER or Salesman; thoroughly experienced; all branches; excellent record; well recommended. "Chemicus," 16 Dartmouth Park Hill, N. 7.

A.A.A.—PHARMACIST requires post as Branch Manager; would be willing to invest small capital in satisfactory trial in view of future ownership; young, energetic, married; Birmingham or district preferred; excellent references. "Pharmacist," 16 St. John's Road, Harborne, Birmingham.

A.A.A.—CAPABLE Manager; highly recommended; all-round experience; expert salesman and business developer. "Pharmacist," 64 Raleigh Road, N. 8.

A.A.A.—AN Irish Chemist Assistant desires change; all-round experience; seven years' excellent experience; Counter, Dispensing, Photography; please state salary. 270/40, Office of this Paper.

A.A.—FINISHING period of Locum, 12th; qualified; young, tall, energetic; good Salesman; Photographic experience; desires permanency, Assistant or Branch Manager position. Frith, 18 Langley Mansions, Vauxhall, S.W.

A.A.—LADY Assistant; 6 years' experience, Dispensing, Counter, and Stock; highly recommended; permanent Locum; London. Carpenter, 19a Pinborough Road, Kensington.

A PHARMACIST desires London permanency; young, but exceptional experience in Dispensing, Counter, and Photographic; would prefer position giving scope for advancement; a chance to use business ability; now disengaged. Pratt Hamfrith Road, E. 15.

A QUALIFIED Chemist as Manager or Assistant; 20 years' experience; permanency desired. Davies, Chemist, Waurby, Llanely.

A QUALIFIED Chemist (44); Locum or permanency; good experience and references; disengaged. "Lancashire," Linwood Street, Greenheys, Manchester.

A QUALIFIED lady (25) desires post as Dispenser in class business; disengaged. "R.", 31 Mostyn Street, Llandudno.

ALIFIED Chemist (48) desires permanent or temporary employment. "Statim," 20 Seymour Street, Euston Square,

RTISER, capable, energetic, unqualified, would accept very moderate wage; outdoors; London preferred; disengaged. "Spero," 390 Clapham Road, S.W. 9.

RTISER (34), genuine, conscientious worker, desires responsible position, Retail or Wholesale; 20 years' splendid experience, Prescribing, Salesman, Secretarial, private and Stores experience. Adams, 5 Albert Terrace, Middlesbrough.

PATHIC, Homœopathic, Photographic; 18 years' experience; 34; disengaged; Locum or permanent; sound references; 225 Conway Street, Birkenhead.

Assistant, part time; qualified; evenings and Sundays; 16 years' London experience. T. W., 13 Reed's Place, Kentish.

ENTICE.—Youth, age 16, passed Preliminary, seeks position as Apprentice to Pharmaceutical Chemist in London to H. Lapsker, 118 Redman's Road, Stepney, E. 1.

Assistant Dispenser; age 27; married; three years' experience as Assistant Dispenser and Dresser. M.L. 75259, Office Paper.

Dispenser.—Young lady (Hall, Part I. qualification) desires post with Doctor; experienced. D., 64 Inwood Road, W.

Locum or permanency; Manager or Assistant; reliable; experienced; moderate terms. Chemist, 6 Eastbourne Ter-

London, W.

Manager; qualified, elderly; active business habits; good dispenser, Prescriber, and references. Apply 268/35, Office Paper.

Manager or Assistant; unqualified; 31; energetic and reliable; Scotchman; Counter and Dispensing; highest references. Apply 268/34, Office of this Paper.

erty; unqualified; good experience, including West End; London or provincial. Nelson, 35 Woodstock Road, Finsbury N. 4.

STANT; Analytical Pharmacy or Hospital; 22; married; London College of Pharmacy; six years' experience as Dispenser and Assistant. Apply M.L. 24880, Office of this Paper.

STANT; Wholesale or Retail; 23; educated Secondary School and Technical Training, Chelsea Polytechnic; seven years' experience as Assistant Dispenser. Apply M.L. 12235, Office of this Paper.

STANT, qualified (22), for Dispensing (Minor) and Sight-testing; also a knowledge of Photography; disengaged at 20th. Miss Reynolds, 101 Denmark Hill, S.E. 5.

STANT (Hall), young lady, with Hospital experience, desires post with London Chemist. Davis, 2 Nelson Street, W. 1.

STANT; 26; tall; London experience; disengaged. Organ, 4 St. Alban's Road, Treherbert, Glam.

STANT; qualified (24); good references; seven years' experience; Dispensing, Window-dressing, and Photography. Linslade, Leighton Buzzard, Beds.

STANT (22); Part I. (Qual. Exam.); town experience; capable Dispenser, Counterman; post in country preferred; salary; disengaged. Apply 269/33, Office of this Paper.

STANT or Manager; 33; unqualified; 18 years' good all-round Counter and Dispensing experience; reliable; disengaged end November. Apply 269/39, Office of this Paper.

STANT; Wholesale or Retail; 27; competent English and Continental Dispenser; French and German. R. A., 11 Con Road, N.W. 1.

STANT (30), unqualified, desires permanency; married; 5 years' experience; gentlemanly appearance; disengaged. Apply C. F. Sholton, "Grantham," Arthur Road, Cliffe.

STANT, qualified (27), desires situation; good Dispenser; salary moderate; Southern Counties preferred, but not essential. L. Bridger, 28b Seaside, Eastbourne.

STANT, lady (22), unqualified, College trained, good references; desires post in or near London. Watson, 15 Ranelagh, S. 1.

STANT, unqualified (24); six years' experience Dispensing, Counter, also good knowledge of Photography; excellent references; disengaged; London preferred. Apply John, Little Hill Farm, Barry, South Wales.

STANT, qualified (23), capable, energetic, requires further all-round experience; moderate salary. "Disengaged," 8 Gate Street, Netherfield, Notts.

STANT, male (24), qualified, requires position; London district preferred; seven years' experience. F. R. Smith, Man Road, Colchester.

ASSISTANT, thoroughly experienced in good-class Retail and Dispensing; competent; reliable. Ruffhead, 23 High Street, Olney, Bucks.

BRANCH Manager, qualified, reliable; temporary work entertained. W. Howell, Ph.C., 5 Woodhouse Grove, Manor Park, E. 12.

BRIGHTON, Worthing, South Coast, or Inland.—Lady; qualified, efficient; moderate salary; free mid-December. Apply 270/24, Office of this Paper.

CAPABLE Assistant (26); good-class Counter and Dispensing experience; quick and accurate; provincial. Full particulars to Haigh, 25 Stafford Parade, Halifax.

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." (269/28), Office of this Paper.

COMPETENT qualified Assistant or Manager (25), seven years' experience, disengaged now; energetic and trustworthy; any district; temporary or permanency. "M.P.S.," 32 Alnwick Road, South Shields.

DISENGAGED; good general, sound expert experience, Dispensing, Pill-making, Counter, Sales, Dental; 5 years' management. "Prescriber," 122 Scott-Ellis Gardens, N.W. 8.

DISENGAGED; Locum, Assistant, or Manager; any period; wide experience; town or country; terms reasonable. "Reliable," 239 Camberwell New Road, S.E. 5.

DISENGAGED; qualified; Manager or Locum; æt. 46; thoroughly experienced all branches. "Chemist," 108b Elgin Avenue, W. 9.

DISPENSER; age 26; good experience; X-Ray Operator and Electrician; General, Medical, Hospital, and Chemical experience. Apply M.L. 10619, Office of this Paper.

DISPENSER, lady (30); thoroughly experienced; Hospital and private practice; quick, reliable; abstainer; highest testimonials; free now; any district. Letters only, Miss Hopkins, 7 Gauden Road, Clapham, S.W.

DISPENSER-BOOKKEEPER, Hall, desires post, Doctor or Hospital; experienced. Miss Rumney, 15 Essendine Road, W. 9.

ENERGETIC young lady, with Counter and Dispensing experience, requires post; one subject left to complete Hall. Apply 259/16, Office of this Paper.

EVENING or part-time duties required by male, unqualified; age 22; Dispensing, Counter. "Medinal," 9 Campbell Road, Walthamstow.

EVENINGS, 1 or 2 (afternoon if required); Pharmacist; 30; tall; good Dispenser; moderate terms. Carter, 20 South Parade, Chelsea, S.W. 3.

EXPERIENCED Manager or Locum; all branches; London, provinces, Continental; disengaged; fluent French. "Pharmacist," 35 St. Mary's Terrace, W. 2.

EXPERIENCED; West End, suburbs, country, Continent; 28; qualified; tall; educated; references; disengaged end November. Apply 272/36, Office of this Paper.

F. B. DI MENNA, Chemist, George Street, Lindley, Huddersfield, is open for post as Manager, Assistant, or Locum in the West Riding; single; many years' experience; highest references.

KEEN business man, having retired six months, wishes to return to business; age 38; well educated; good organiser; has initiative; keen buyer; first-class personality; moderate salary for first few months. Apply 271/4, Office of this Paper.

LADY (21); Hall; Minor student; whole or part time; 5 years' Dispensing experience. Walker, 8 Hornsey Place, N. 16.

LADY (Hall, Parts I., II.) offers part-time services in return for some experience in Dispensing; S.W. district or Strand preferred. "B. M." (F.C.B. 60/23), Office of this Paper.

LADY Dispenser (20), Hall; disengaged; experience in Dispensing and Bookkeeping; London district preferred. Miss M. Ashford, Gillingham, Beccles.

LADY Dispenser (30), Hall, demobilised from Netley Hospital, desires post, Hospital, Institution, Doctor, or Chemist; good experience with each. Yeates, c/o Browning, 48 Devon Street, Beswick, Manchester.

LADY Dispenser (clergyman's daughter), Hall certificate, Medical, Bookkeeping, Higher Cambridge Honours, desires post (December), London or Oxford preferred, with Doctor, Institution, or Chemist; moderate salary; any reasonable offer entertained; excellent references. Miss Rumsey, 22 Norham Gardens, Oxford.

LADY Dispenser, Minor qualification, desires post; experienced; references, etc.; disengaged. Apply "A. A.," 18 Margaret Street, Abercynon, Glam., S. Wales.

LADY Dispenser (Hall), Bookkeeping, assist Dressings, interview patients, excellent references (5 years last post), desires work; Doctor or Chemist; town or country. Matthews, 57 Morland Road, Croydon.

LADY Dispenser (Hall), thoroughly experienced in Hospital and Doctor's Surgery, excellent testimonials, seeks post in London or near. Apply 272/39, Office of this Paper.

LADY Dispenser (20), Hall qualification, desires post with Chemist. Apply 271/22, Office of this Paper.

LOCUM, disengaged; country; qualified; 54; energetic; first-class experience and references. Optics, Photography; booking forward. Dewey, 121 Stafford Road, Wallington, Surrey.

LOCUM or temporary; disengaged; excellent all-round experience; thoroughly reliable; highly recommended; moderate terms. "M.P.S.," 32 Allandale Road, Leicester.

LOCUM or permanency; London; good Dispenser; moderate salary; good references. H. Lemon, 7 Roslin Terrace, Roslin Road, Acton.

LOCUM or permanency; now disengaged; excellent references; active; good appearance and address; Stocktaker. "Qualified," 4 Ormond Terrace, Cheltenham.

MANAGEMENT, with investment; country business; Devon preferred, but not essential; qualified; exceptional responsible experience. Apply P.C.B. 60/5, Office of this Paper.

MANAGER or Assistant; 38; educated Edinburgh University; thoroughly experienced; conversant with medical profession. Apply M.L. 97404, Office of this Paper.

MANAGER, at present in good position, requires change, with view to succession; opportunity for Pharmacist wishing to retire. Apply 268/32, Office of this Paper.

MANAGER or Assistant; qualified; 44; best references; varied London experience; moderate terms. "W. S.," 83 Vant Road, Tooting, S.W.

MANAGER; height 6 feet; thorough all-round experience; Photography, H.I.; Branch Manager and Buyer for 12 years; excellent testimonials. "Chemist," West Lea, Norwich Avenue, Bournemouth.

MANAGER, Assistant, or Locum; qualified; references (long duration) good; terms moderate; cover for company; disengaged; interview; registered Dentist; cash for investment; varied experience. Brewerton, 7 Oxford Street, Liverpool.

MANAGER; 10 years' reference; good all-round experience; knowledge Photography, Optics, and French. "Chemist," 84 Queen's Avenue, N.3.

MANAGER or Senior, unqualified; 15 years' West-End and provincial experience; disengaged December 1st. Allman, 6 Thanet Road, Margate.

MANAGER, Assistant, or Locum; 32; tall; West-End experience; disengaged now. Apply "M.P.S.," 49 Elizabeth Street, Belgrave, S.W. 1.

MINOR, lady, desires post, Hospital or Retail; experienced; London preferred. Hughes, 606 Harrow Road, Paddington.

PART-TIME required by qualified; aged 26; three evenings and one whole or half-day per week; London or district; highest references. Apply 269/29, Office of this Paper.

PART-TIME; London or district; afternoons, evenings, or three days weekly; student requiring one subject for Minor. 31 Hemberton Road, Clapham.

PART-TIME; two or more days weekly, or other time, by arrangement. C., 39 St. Thomas Road, N. 4.

PERMANENCY; 25; undeniable references; quick and accurate. "Pharmacist," "Elnathan Villa," Marlborough Hill Place, Bristol.

PERMANENCY or Locum; unqualified (26); Dispenser, excellent Salesman, Photographics; abstainer; reliable, energetic; highest references; London or suburbs; disengaged. Rutherford, 102 Edith Grove, Chelsea, S.W. 2.

PHARMACIST (26), skilful Dispenser, thoroughly competent and reliable, desires position in or near London. M. King, 2 Culmington Road, Ealing.

PHARMACIST, with long experience as Manager, requires permanency; town or country; good Dispenser and Prescriber; modern business methods; married; disengaged. "C. O. H.," 26 Fox Hill, S.E. 19.

QUALIFIED, 25, married, desires Locum or permanency; Counter, Dispensing, Photography; satisfactory testimonials. Proctor, 2 Higham Place, Newcastle-on-Tyne.

QUALIFIED, 24, seeks permanency; energetic; good all-round experience; excellent references. Ebor House, Sandstead, near Whitby.

QUALIFIED (25), desires permanency; good Dispensing and Retail experience; excellent references. Ford, Augusta Place, Lower Weston, Bath.

QUALIFIED, 24, good Dispensing and Retail experience, good references, requires permanent berth; Midlands preferred, but not essential. Moreton, 84 Gadsby Street, Nuneaton.

QUALIFIED; 50; energetic and capable; last situation 8 years as Branch Manager; disposal of business cause of leaving; first-class references; disengaged. "Chemist," 22 Sherwood Street, Fallowfield, Manchester.

QUALIFIED (48); London and provincial experience; highly recommended and capable; reasonable salary accepted; commence. W. Owen, 5 Rutland Street, Colne, Lancs.

QUALIFIED (27) desires situation immediately; good General experience; reliable; references; disengaged 5th. G. Radford, 8 Nuttall Street, Alfreton, Derbyshire.

QUALIFIED (25) desires position in good-class provincial pharmacy; reliable Dispenser, Counter experience, and knowledge of Photographics; seven years' experience; disengaged. 8 Hythe Bridge Street, Oxford.

QUALIFIED, experienced; Manager or Assistant; S.W. district preferred. Todd, 60 Atherfold Road, Stockwell, S.W.

QUALIFIED (24), first-class Dispensing experience, Photography, desires position in good-class Pharmacy. J. Willcocks, Datchet, Bucks.

QUALIFIED (39); single; high-class West-End Dispensing, Store, experience; excellent references; any position. "M.P.S.," May Cottage, Hambrook, Emsworth.

QUALIFIED (30); Manager or Assistant; Dispensing, Counter, Photography; highest references. Apply 271/5, Office of this Paper.

QUALIFIED, 24, hoping later to commence business for self, desires post offering good all-round experience; references; Square prizeman; low salary to commence. H. J. Wadley, East Rudham, Norfolk.

RELIABLE, unqualified Assistant; 40; single; accustomed to quick Retail, Dispensing, and Photography. "Me," (270/11), Office of this Paper.

ROBINSON (24), unqualified, desires position as Assistant; good references. 86 Knotts Lane, Colne.

SENIOR Assistant; Mixed trade; Prescribing, Extracting, Photography; expert Counter Hand; 20 years' first-class experience; married; disengaged; salary £2 15s. per week. Perkins, c/o Mrs. Harvey, 57 Lichfield Road, Bow, London, E.

SMITH, Pharmacist and Optician, Clay Cross, can thoroughly recommend qualified Assistant; age 23; single; capable in all branches.

TEMPORARY, permanency; large, varied experience, different class businesses; Manager, Assistant. "Chemist," 79 Street, Manchester, S.

UNQUALIFIED (30), tall, single, Dispensing, Counter, Photographic, Window-dresser, able to take entire charge, 6 years with present employer, desires change; London. "P.," 24 Bective Road, Putney, S.W.

UNQUALIFIED Assistant; trained; age 28; height 5 ft. 11; experience eight years; disengaged. Johnstone, H.R. Street, Bodmin, Cornwall.

UNQUALIFIED; 20 years' good experience; 36 years' excellent testimonials. Briggs, 24 Walrond, Street, S.W.

UNQUALIFIED; reliable; abstainer; experienced Counter, Dispensing, Photographic, Agricultural; permanency; 51 years' last situation. "H.," 61 Castle Street, Kendal.

UNQUALIFIED; lady; six years' experience Dispensing, Counter, Photo, and Window-dressing; N.W. London preferred. E. M. Trash, 90 Chaplin Road, N.W. 2.

UNQUALIFIED (32); married; 16 years' good all-round experience; capable of taking charge; last position 3 1/2 years work a pleasure; good references. Apply 272/15, Office of this Paper.

WANTED, situation as Junior; age 20; smart appearance; well up in Counter and Photographic work. "G.," 6 Westbourne Road, Forest Hill, S.E. 23.

YOUNG lady (23), Minor qualification, accurate Dispensing experience Counter work and Window-dressing, excellent references, wishes to go South. Apply Mackenzie, 468 1/2 Street, Aberdeen.

YOUNG French lady (22), five years' Dispensing experience; best references, desires situation with Chemist, in London district preferred. Mlle. Lampiano, 27a Rosslyn Hill, Hampstead, N.W.

£4 PER WEEK.—Qualified; 24, tall, keen, reliable; Salesman; all-round experience; Midlands preferred; not essential. Apply 270/7, Office of this Paper.

We desire particularly to draw the attention of Colonial Foreign Subscribers to the fact that in cases where require partners, agents or assistants, or wish to place businesses, an Advertisement in this Supplement, placed every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. A tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertising correspondents in this country.

WHOLESALE.

REPRESENTATIVE, with live first-class connection amongst Chemists and Stores in London and districts, is open to sent any first-class firm of repute; excellent credentials. B., tanwick Mansions, West Kensington, W. 14.

EMICAL Manufacturers or Merchants.—Are you in need of a first-class man as Buyer, Salesman, or Manager; 25 years' experience; has sound knowledge of trade in all its branches; possesses initiative, intelligence, and energy; could open up export work, or would join one willing to finance business. Apply 31, Office of this Paper.

EMIST (fully qualified), experienced in research on and manufacture of Alkaloids and Pharmaceuticals, also in management, is open to engagement. Apply P.C.B. 60/4, Office of this Paper.

SPARTMENTAL or Laboratory Manager, qualified, open to engagement; 18 years' experience, London and North, manufacturing Galenicals, Toilets, etc. Apply 271/12, Office of this Paper.

CEPTIONAL opportunity occurs for an established firm to secure services of a gentleman with excellent credentials, to assist, who has wide experience with Doctors, Chemists (Wholesale and Retail), Hospitals, Clinics, and in administrative detail medical propaganda organisation; able to design and dress all futuristic window displays; good ground covered and section; age 32; for resident London, Home Counties, or abroad; experience of the East. "B." 29a Taigarth Road, West Kensington, W. 14.

SERVICE man, 22, with good theoretical knowledge of Chemistry; one year's practical experience in Chemical factories; educated Secondary School, University of Wales. Apply 7328/21, Office of this Paper.

ENTLEMAN, with old-established connection amongst the Chemists, Stores, etc., of Cheshire, North and Central, and part Shropshire, at present carrying one line, desires other; only first-class house represented; willing to pay small salary and share of expenses; excellent references. Apply 268/29, Office of this Paper.

ENTLEMAN, tall, 21 years of age, 4½ years' first-class Retail experience, desires post in Wholesale with view to learning Wholesale Manufacture of Pharmaceutical Preparations, etc.; energetic. Moon, 3 Drylands Road, Crouch End, N. 8.

LABORATORY man, thoroughly experienced in making Galenicals and Toilet Preparations, seeks situation; Manchester or district preferred. "X." (271/16), Office of this Paper.

MANUFACTURING Chemist, 24, educated Hartley University, speaks Spanish, good knowledge Chemistry, manufacturing Pharmaceutical, buying experience, wishes to go abroad; or on Spanish-speaking countries. Apply M.L. 13256, Office of this Paper.

QUALIFIED (23) desires post in Manufacturing Works; very keen on Chemistry; excellent references and testimonials. Address "M.P.S." 130 Regent Road, Fenton, Stoke-on-Trent.

16 YEARS' UNIQUE EXPERIENCE.

DETAIL Laboratory, Wholesale; accustomed handling Chemical, Medicinal, Toilet Specialities, and control; finishing of "Pituitrin" (F.C.B. 60/27), Office of this Paper.

REPRESENTATIVE in Midlands of leading Drug, etc., house, shortly disengaged, wishes re-engagement to represent good house; several years' live connection over large area with Chemists; qualified Chemist; excellent knowledge Drug and Allied Trades and Salesmanship; undeniable references. Apply 271/35, Office of this Paper.

LES Manager; 38; married; educated Royal Technical College, Glasgow; French, German (fairly fluent), and some Italian; expert knowledge of pure Chemicals and Pharmaceuticals, of Essential Oils and Flavouring Essences; experienced in administrative control of travelling staff and sales organisation above lines. Apply M.L. 13550, Office of this Paper.

LESMAN, Manager, or Buyer in the Chemical trade; 37; single; 15 years' experience as Junior to Departmental Manager, 1 year as Buyer and Salesman to Chemical Merchants, 2 years' experience as Manager of Chemical Department for General Merchants. M.L. 2915/21, Office of this Paper.

NORTHAND-TYPIST, lady (25), seeks post with Wholesale Chemists; good knowledge Drugs and Pharmaceutical Preparations. Apply 272/24, Office of this Paper.

TUATION wanted as Pastille and Jube Maker. Apply 262/27, Office of this Paper.

WORKS Manager; 31; married; six years as Chief Clerk to Merchants, and 14 years Departmental Manager, Chemical Merchants; knowledge of commercial Buying and Selling, Typing and Bookkeeping. M.L. 93449, Office of this Paper.

WORKS Manager, with unique Manufacturing experience, desires post; experience includes all general manufacture of Pharmaceutical Preparations and Chemists' Packed Goods, also Soaps, Disinfectants, Surgeons' Medicated Dressings, Toilet and Lumery Goods, etc. Apply "London" (271/29), Office of this Paper.

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10s. for 60 words; 1s. for every additional 10 words or less.

The Advertiser may if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

£150.—COMPLETE Set of Fittings, Drug Fitting, Wall Case, Dispensing Screen, Serving Counter, Counter Case, Perfume Case and Desk, Drawers, Glass Shelves, Oak Stands; equal to new. Philip Josephs & Sons, Ltd., 93 Old Street, E.C. 1.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C. 1.

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CARDBOARD BOXES FOR SALE.—

Square Boxes, 2½" square by ½" deep, lined silver paper, 3,000 gross; square shoulder boxes, as above, unlined, 1,000 gross; round boxes, 2½" diameter by ½" deep, 2,500 gross; advertiser is open to consider offers for large or small quantities. Apply 9/25E, Office of this Paper.

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NEW cast-iron Vacuum Drying Chamber, 60" x 30" x 25", by Pontifex; complete with vacuum gauge, etc.; no shelves or racks; cost £250; accept £60 or near offer. Matthews, 140 Idle Road, Bradford.

ONE Microscope, 4 objectives, two ⅓-in. oil immersions, one ⅓-in. and one ⅔-in., Abbé condenser and mechanical substage, by Crouch; one Hearson Incubator, 20 x 32 x 18 in.; one Sphygmomanometer, by Short & Mason; one double-gear Centrifuge; 16 x 1-pint stoppered Reagent Bottles, enamel labels; and one Sartorius Balance; the lot, second-hand, in good condition, for £60, at our works. W. Martindale, 10 New Cavendish Street, London.

SPECIAL Clearing Line; only limited quantity; less than pre-war prices; Shaving Stick Refills (with certificate of guarantee); 3 doz. lots for 10s. 6d. post paid; 6 doz. lots for 20s. post paid; 12 doz. lots for 36s. post paid. Post to Gaiety Pharmacy, Peter Street, Manchester.

1 CWT. Phenacetin B.P. Bayer's, 6s. 6d. per lb.; 120 lb. Phenazonum B.P. Meister's, 8s. 6d. per lb. Apply 269/4, Office of this Paper.

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CHEMICAL BALANCE, with weights (platinum), in good condition, £3 10s. Royle, Grimshaw Lane, Middleton Junction, Manchester.

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WANTED.

WALLCASE, about 12 ft. long, 8 ft. high. Scholes, Chadderton, Oldham.

SECOND-HAND Shop Rounds, in good condition. Particulars to Bert Sindell, 18 Hale Street, Poplar, E. 14.

PHARMACEUTICAL Books wanted; cash offers on receipt. Gower, Bookseller, 41 Voltaire Road, Clapham.

GLADHILL Cash Register Till, with printer and adder. Lowest price to Evans, 239 Hammersmith Road, London, W. 6.

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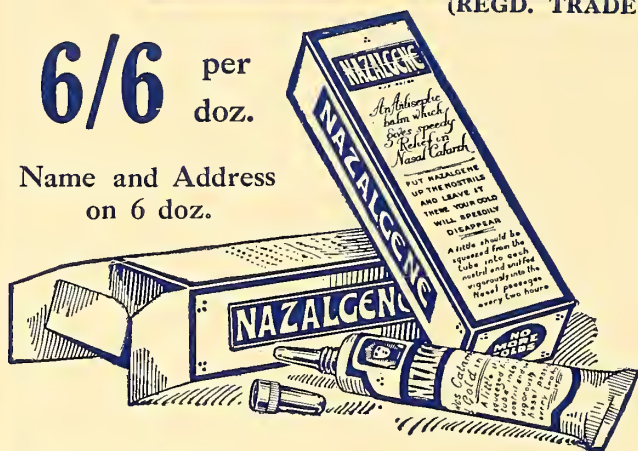
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